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**TRANSCRIPT OF HEARING
ON IMPROVING U.S.
PARTICIPATION IN
INTERNATIONAL
STANDARDS ACTIVITIES**

FIRST DAY: APRIL 3, 1990

**U.S. DEPARTMENT OF COMMERCE
National Institute of Standards
and Technology
Technology Services
Office of Standards Services
Gaithersburg, MD 20899**

**U.S. DEPARTMENT OF COMMERCE
Robert A. Mosbacher, Secretary
NATIONAL INSTITUTE OF STANDARDS
AND TECHNOLOGY
John W. Lyons, Director**

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TRANSCRIPT OF PROCEEDINGS

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

DEPARTMENT OF COMMERCE

HEARING PANEL MEMBERS' MEETING

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NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
DEPARTMENT OF COMMERCE

HEARING PANEL MEMBERS' MEETING

Tuesday
April 3, 1990

9:30 a.m.

Department of Commerce Auditorium

Present on Panel:

DR. STANLEY I. WARSHAW, Chairman
Director, Office of Standards Services
National Institute of Standards and Technology
Admin. Bldg., Rm. A-603
Gaithersburg, Maryland 20899

MR. WALTER G. LEIGHT
Deputy Director, Office of Standards Services
National Institute of Standards and Technology
Admin. Bldg.
Gaithersburg, Maryland 20899

MR. JOHN L. DONALDSON
Chief, Standards Code and Information Program
Office of Standards Services
NIST
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Gaithersburg, Maryland 20899

MR. JOHN McCUTCHEON
Food Safety and Inspection Service
U.S. Department of Agriculture
South Building
Washington, D.C. 20250

MR. PHILLIP B. WHITE
Director, Office of Standards and Regulations
Center for Devices and Radiological Health
Food and Drug Administration, HFZ-80
5600 Fishers Lane
Rockville, Maryland 20857

MS. WENDY MOORE
Director, Telecom and Information Standards
CIP Bureau
U.S. Department of State
2201 C Street, N.W., Room 6317
Washington, D.C. 20520

MR. CHARLES LUDOLPH
Director, Office of European Community Affairs
International Trade Administration
Department of Commerce
Room 3036, Hoover Building
Washington, D.C. 20230

Presenters Present:

JOSEPH O'GRADY
American Society for Testing and Materials

JAMES PEARSE
MANUEL PERALTA
American National Standards Institute

OSCAR FISHER
MELVIN GREEN
American Society of Mechanical Engineers

MARCO MIGLIARO
ANDREW SALEM
Institute of Electrical and Electronics Engineers

WILLIAM CALDER
Instrument Society of America

BEN JOHNSON
Industry Applications Society

JAMES DECKER
American Society of Civil Engineers

RICHARD ALLEY
American Welding Society

RUSSELL HAHN
ROBERT LANPHIER
American Society of Agricultural Engineers

ANTHONY O'NEILL
ARTHUR COTE
DANIEL PILIERO
National Fire Protection Association

MICHAEL MILLER
DENNIS STUPAK
ROBERT FLINK
MORT LEVIN
Association for the Advancement of Medical Instrumentation

JAMES BIHR
RICHARD KUCHNICKI
WILLIAM TANGYE
PAUL K. HELSTEDT
Council of American Building Officials

Presenters Present: (continued)

THOMAS FLINT
American Plywood Association

DAVID GRUMMAN
FRANK CODA
JIM HELDENBRAND
American Society of Heating, Refrigerating and Air
Conditioning Engineers

JIM FRENCH
American Institute of Aeronautics and Astronautics

MAX ROMBAUGH
LAMONT ELTINGE
Society of Automotive Engineers

RONALD REIMER
United States National Committee of the IEC

TOM CASTINO
JOE BHATIA
Underwriters Laboratories

HERBERT WILGIS
MILTON BUSH
American Council of Independent Laboratories

RICHARD SCHULTE
American Gas Association

WALTER POGGI
Retlif Testing Laboratories

RICHARD FEIGEL
Hartford Steam Boiler Inspection and Insurance Company

P R O C E E D I N G S

1
2 MR. LYONS: Good morning and welcome to these
3 proceedings. I am John W. Lyons, the Director of NIST. We
4 are about some very important business this week. The
5 question is how we do standards development, testing,
6 accreditation and certification in the rapidly changing
7 global marketplace.

8 Our concern in the Department of Commerce is the
9 health and prospects of the United States economy and
10 industry's ability to compete on an equal footing in this
11 marketplace.

12 We have a pluralistic, decentralized approach to
13 many aspects of our lives -- included are consensus
14 standards development, product testing and certification,
15 laboratory accreditation, building regulations and the like.

16 We have however a new challenge created by the
17 globalization of markets and compounded by the competitive
18 difficulties facing many of our industries. These
19 difficulties are reflected in the balance of trade
20 statistics.

21 If it were not for the strongly-felt pressures
22 from overseas competition, we would not be holding these
23 proceedings this week.

24 Pressure is building from developments such as the
25 ever-more centralized European community as typified by EC

1 92 and by increasingly active governments around the world
2 that have centrally-run standards-related activities.

3 Can we continue to use the tools and mechanisms of
4 the past in dealing with these new phenomena? If the answer
5 is yes, then what fine-tuning is needed? If the answer is
6 no, then what new mechanisms are desired?

7 The purpose of this hearing is to build a formal
8 record of views from interested parties and then to use that
9 record in considering the next steps each of us should
10 consider.

11 We know by the responses to the hearing
12 announcement that there are many parties sufficiently
13 concerned to ask to speak. There will likely be others who
14 will submit written material.

15 We expect to receive a broad spectrum of opinion
16 and we look forward to examining the resultant record and
17 being guided by it.

18 Again, welcome. Please accept our thanks for your
19 concern and dedication to the common cause of helping U.S.
20 industry.

21 And now to Stanley for some administration
22 announcements.

23 CHAIRMAN WARSHAW: Thank you, John. I will speak
24 from here and just give some administration information.

25 First, let me introduce you to the panel members

1 joining me here today.

2 Can we raise the level of the microphone?

3 (Pause.)

4 My name is Stanley I. Warshaw and I will be
5 chairing this discussion. I am the Director of the Office
6 of Standards Services from the National Institute of
7 Standards and Technology.

8 On my far left is John McCutcheon from the
9 Department of Agriculture. Next to him is Ms. Wendy Moore,
10 from the Department of State and on my immediate left is
11 Charles Ludolph from the Department of Commerce, Director of
12 the Office of the European Community Affairs within the
13 International Trade Administration.

14 On my far right is Phil White from FDA, Food and
15 Drug Administration. Next to him is John Donaldson from the
16 National Institute of Standards and Technology, also in the
17 standards area, and to my immediate right is Walter Leight
18 who is also part of the same standards function in the
19 National Institute of Standards and Technology.

20 Let me point out that the panel members here today
21 are here, particularly those from the other agencies, in an
22 advisory role, to assist the National Institute of Standards
23 and Technology on matters that require some clarification
24 because they can bring a perspective from their specific
25 technical expertise that will really be, we are confident,

1 of assistance to us at the National Institute of Standards
2 and Technology in terms of getting all the information we
3 can in order to put forth recommendations for possible
4 government actions as the Federal Register announcement of
5 November said with respect to assistance to the Industrial
6 Community in the United States.

7 The questioning during this hearing will only be
8 conducted from the panel that has just been introduced to
9 you. Each speaker has been granted ten minutes to make his
10 presentation. In order to get the 70-some presentations
11 accomplished within these three days, we are going to
12 careful control and monitor that time.

13 We have, in order to assist presenter, lights with
14 timers that will go red, yellow, green and will go yellow
15 one minute before the ten minutes are up, and then red when
16 it is time to stop.

17 This will assist them in order that they can
18 respect others who may be appearing subsequently and allow
19 sufficient time for everybody to get their remarks in within
20 these three days.

21 The program has been arranged in groupings and the
22 groups are well-defined. If you look at the last page of
23 your agenda, there is detailed information on how you can
24 obtain either transcripts of this hearing or other written
25 material and it will also be available in the Department of

1 Commerce Reading Room after these hearings.

2 In addition to that, I want to point out that we
3 have extended the comment period for receiving written
4 comments until June 5th -- another 60 days following this
5 hearing -- because of the numerous responses that we are
6 receiving. We want to be sure to get in everybody's
7 thoughts.

8 If you want to receive information relative to
9 this hearing, or any subsequent actions that are related,
10 you should fill out one of the cards at either entry or
11 leave your business card in order to be certain that you are
12 on the mailing list.

13 The breaks and luncheon times are scheduled in the
14 agenda. There will be a 15-minute break both in the morning
15 and in the afternoon and then there is one hour for lunch.

16 There are restroom facilities at the extreme ends
17 of the corridors of the Department of Commerce. The
18 Commerce building is like a capital H. We are on a cross-
19 leg and you can go out either that way or that way
20 [indicating] and at the extreme ends there are men's rooms
21 and ladies' rooms. The staff here would be happy to assist
22 you.

23 The cafeteria is located immediately below this
24 auditorium and you can gain access to the cafeteria by going
25 out the rear here, turning left and either taking the

1 elevators down one level, or the stairwell next to the
2 elevators down one level. It is adjacent to the National
3 Aquarium.

4 So, if I could have the first two presenters take
5 the podium.

6 Let me point out, while they are coming up here,
7 that the first two presentations will be made by
8 representatives of the American National Standards Institute
9 and ASTM, the American Society for Testing and Materials, so
10 if you would.

11 What we have done, where people perceived there
12 was a conflict in terms of the agenda or any other purposes,
13 we have said that we will swap slots on the agenda for those
14 requesting such a change, providing we receive in advance,
15 written acknowledge of that from all the parties concerned.

16 The American National Standards Institute has
17 requested the first slot and the American Society for
18 Testing and Materials -- ASTM -- will then take the second
19 slot and then the Society for Automotive Engineering will
20 then come on at 3:00 for the slot that had been originally
21 allocated ANSI.

22 So, to repeat, first we have representatives of
23 the American National Standards Institute, following by a
24 representative of ASTM and then we follow the normal agenda,
25 if you will, until 3:00 when ASE will then make their

1 presentation at that time.

2 This is the only change in terms of the swapping
3 slots that we have received as of this date. There are two
4 or three cancellations of presentations for the following
5 days.

6 Tomorrow, April 4th, the presentation scheduled
7 for 9:30 by Dash and others has been cancelled by that
8 party. The presentation at 4:15 p.m. by Bussmann has also
9 been cancelled. Only two presentations for April 4th, then,
10 are cancelled.

11 On April 5th, at 10:15, AT&T Bell Labs has
12 cancelled and at 2:15 p.m., the presentation by NKA is
13 cancelled. Again, two cancellations for the 5th.

14 There are no cancellations for today, just this
15 three-way swap, if you will, with respect to time.

16 I will now ask the representative of ANSI, Mr. Jim
17 Pearse, Chairman of the Board of ANSI if he would present
18 ANSI's views and introduce his associates.

19 MR. PEARSE: Thank you, Mr. Warshaw, and good
20 morning, Mr. Director and members of the panel. My name is
21 James N. Pearse and I am Chairman of the Board of the
22 American National Standards Institute.

23 I am accompanied by the President of the
24 Institute, Manuel Peralta.

25 The Institute's membership currently includes more

1 than 1100 companies of all sizes and shapes, close to 250
2 organizations who collectively account for more than 95
3 percent of the active standards developers in this country,
4 government agencies, educational institutions, consumers and
5 individuals.

6 Employees of four federal agencies sit on the
7 Institute's large and diverse Board of Directors, including
8 Dr. Lyons of NIST.

9 As identified by our strategic planning process, a
10 major priority of the Institute is to realize a positive,
11 cooperative relationship with the government so as to best
12 serve the American public.

13 The Institute strongly supports the existing U.S.
14 voluntary system of standards, testing and certification.
15 Our pluralistic, de-centralized system mirrors this
16 country's culture and commitment to free enterprise by
17 allowing the market to determine the optimum allocation of
18 resources devoted to national and international standards
19 efforts.

20 Within that system, divergent points of view are
21 both permitted and encouraged.

22 Individuals employed by the government should and
23 do participate in the process on an equal footing with
24 parties from the private sector. The controls that exist
25 within our voluntary system are designed to assure due

1 process and efficiency.

2 More relevant to this hearing, our country has
3 obtained leadership positions internationally for many
4 important technologies, achieved significant success in
5 enhancing U.S. access to European standards, testing and
6 certification.

7 Despite these and other accomplishments, the
8 Institute recognizes that there is a continuing need for the
9 U.S. to strengthen, adapt and enhance its international
10 activities. Given the significant role standards, testing
11 and certification have come to play in global competition,
12 the Institute believes that our most important goal must be
13 to achieve much better government-private sector
14 cooperation.

15 A failure to do so will inure only to the benefit
16 of those with whom the U.S. competes. This can be
17 accomplished by the federal government playing an active and
18 supportive role within the existing voluntary system through
19 an alliance with the private sector so that, to the maximum
20 extent possible, we speak with one voice.

21 This does not mean that the government should
22 create new institutions to regulate the system, thereby
23 undermining our existing private sector structure. Rather,
24 we believe that the federal government should render
25 constructive assistance to the voluntary standards community

1 within the current system.

2 The Institute strongly believes that the proposal
3 for the creation of a Standards Council of the United States
4 of American, SCUSA, would be redundant, counterproductive
5 and a step backward at a time when it is imperative that we
6 move ahead.

7 In our view, the present system does not need more
8 regulation and more bureaucracy -- it needs meaningful
9 cooperation and participation.

10 The Institute has long served, and continues to
11 serve, as the U.S. member body to the International
12 Standards Organization, ISO, and through the U.S. National
13 Committee, the International Electrotechnical Commission,
14 IEC -- the two leading non-treaty standards organizations at
15 the international level.

16 In advancing U.S. interests, the Institute is a
17 voting member of virtually all of the most important ISO and
18 IEC technical committees, and subcommittees.

19 In many sectors where U.S. interests are most
20 affected by the promulgation of standards, such as
21 information technology petroleum products, etc., the
22 Institute and its members hold Secretariats in the relevant
23 TC's and SC's.

24 It is through this process of obtaining important
25 ISO and IEC Secretariats that U.S. industry has achieved a

1 leadership position in many sectors relevant to our
2 international trade objectives.

3 In those sectors where Secretariats are held by
4 other countries, the U.S. actively participates in TC and SC
5 work in order to advance U.S. interests.

6 In response to the important role played by
7 standards in international trade and, more specifically, in
8 response to EC 1992, the Institute has actively and
9 aggressively used its role as the member of ISO/IEC and
10 liaison with CEN/CENELEC to further U.S. interests.

11 This is well-evidenced by the Institute's recent
12 and highly successful interaction with ISO/IEC and
13 CEN/CENELEC. A highly productive meeting was held last week
14 which concentrated on testing, certification, laboratory
15 accreditation and the formation of the European organization
16 for testing and certification.

17 Officials of CEN/CENELEC have unequivocally
18 indicated their determination to dialogue with non-EC
19 countries through the ISO/IEC mechanism. In order to
20 further U.S. interests, the Institute opened a Brussels
21 office in August of 1989.

22 Through its Brussels office, the Institute has
23 made significant progress in obtaining meaningful
24 transparency and greater access to information concerning EC
25 standards, testing and certification.

1 Extensive efforts have been made to communicate
2 these successes to the Institute's membership and the public
3 at large. One step in that process was the re-opening of
4 the Institute's office in Washington, which also permits
5 better interaction with the government.

6 The Institute understands that the purpose of this
7 hearing is to determine what improvements, if any, should be
8 made in the existing U.S. international standards, testing
9 and certification.

10 The SCUSA proposal, described earlier,
11 contemplates that the new entity would function as a
12 component organization within the Department of Commerce.
13 The responsibilities which would fall within the
14 jurisdiction of the proposed SCUSA include the authority for
15 accrediting standards developers, as well as testing and
16 certification bodies.

17 By giving SCUSA responsibility for accreditation,
18 the proposal is tantamount to government regulation of the
19 U.S. international standards, testing and certification
20 system.

21 The Institute believes that a standards, testing
22 and certification system regulated and led by the government
23 would present enormous difficulties to us and strongly
24 militate against the adopt of this proposal, or any variant
25 thereof, including increased bureaucracy and reduced

1 efficiency, increased litigation, the need to obtain and
2 allocate funds, potential for political manipulation, time
3 and effort required to create and make operational new
4 government systems, and questions about the competence and
5 capacity.

6 There is more comment about these specific issues
7 in our written testimony.

8 CHAIRMAN WARSHAW: We will appreciate your
9 submission of the written comments in the record, if you
10 would.

11 MR. PEARSE: Yes, we will.

12 Although the Standards Council of Canada was
13 presumably created to help solve that country's problems a
14 decade ago, the Institute believes that it is not a
15 desirable model for U.S. standards and certification.

16 The significant difference between the Standards
17 Council of Canada and the Institute is that the SCC is
18 controlled and funded by the government of Canada, while the
19 Institute is neither controlled nor subsidized by the U.S.
20 Government.

21 It is interesting to note that SCC's operations
22 have recently been seriously affected by a reduction in
23 financial support due to government budget austerity.

24 Given the vital role that standards, testing and
25 certification play in U.S. trade policy, the Institute

1 recognizes that the government must be an important and
2 active participant in the process.

3 In addition to establishing a constructive
4 alliance with the private sector, the Institute believes
5 that there are certain specific actions which could and
6 should be taken by the government such as government to
7 government activities, intra-government coordination -- we
8 note here that the interagency committee on standards policy
9 has been somewhat of a disappointment to us -- support for
10 private sector activities, greater educational efforts,
11 greater participation in the existing voluntary standards
12 process, equitable government payment for the voluntary
13 system, creation of tax and other incentives for greater
14 industry participation.

15 Again, these are explained more fully in the
16 written testimony.

17 The most constructive way to achieve helpful
18 improvements in the system is not to fundamentally alter the
19 existing process but instead to provide new means for
20 increased cooperation between the government and the private
21 sector.

22 Because the most immediate international concern
23 facing the U.S. standards, testing and certification
24 community is ED 1992, the Institute has proposed, and will
25 continue to push for, a special private sector/government

1 alliance in this area.

2 The private sector would like to be continued to
3 be held responsible for the principal commitment of
4 resources to the international standards, testing area,
5 however the government's funding role could be enhanced and
6 combined with private sector investments through
7 participation in the process.

8 In March of 1989, Mr. Peralta and I met with
9 Secretary Mosbacher in order to explore methods of
10 increasing government/private sector coordination of EC
11 standards issues.

12 We hope that what we have started through that
13 process can continue in a responsible partnership with the
14 government to advance the interests of the United States.

15 I thank you and I request that a copy of our more
16 comprehensive written statement, along with the exhibits, be
17 included in the hearing record.

18 Thank you for your time and attention.

19 CHAIRMAN WARSHAW: Thank you, Mr. Pearse. We
20 appreciate it and we certainly will be sure that that is
21 included in the record.

22 MR. PEARSE: May I leave this here for you then?

23 CHAIRMAN WARSHAW: Please do. Are there any
24 questions from the panel members?

25 Okay, well, thank you very much, Mr. Pearse.

1 Next we have Mr. O'Grady, President of ASTM to
2 present the views of ASTM.

3 MR. O'GRADY: Thank you, Dr. Warshaw. Before we
4 begin, I would like to make a request. I would like to
5 include in the record the 69 volumes of the ASTM Books of
6 Standards.

7 CHAIRMAN WARSHAW: I'm sorry, sir, but they are
8 copyrighted.

9 (Laughter.)

10 MR. O'GRADY: Well, good morning, ladies and
11 gentlemen. Can you all hear up there?

12 ASTM is pleased to have the opportunity to convey
13 our comments and recommendations on issues critical to the
14 future success of U.S. industry, to the U.S. economy and to
15 the advancement of U.S. technology throughout the world.

16 Said another way, the success of U.S. industry
17 depends on the advancement of U.S. technology throughout the
18 world.

19 I had a long thing here, ladies and gentlemen, to
20 tell you about ASTM but in the interests of time, it is in
21 the record and I will pass on it, other than to say we do
22 have 32,000 members. We have 135 technical committees and
23 our committee structure is the most important asset we own.

24 We do not certify or accredit. We do no testing.
25 ASTM has no conformity mark, but in all we do, we must be,

1 and it is imperative to me, that we be responsive to our
2 ASTM constituency.

3 ASTM is autonomous. We are not subsidized either
4 by government or industry. Well over half our total sales
5 is attributed to non-members, and a significant portion of
6 our sales continue to prevail in Europe and in other areas
7 outside the U.S.

8 ASTM applauds the stated policy of the U.S.
9 Government to improve the acceptance of U.S. technology and
10 manufacturing processes in the international standards
11 arena.

12 For many years, our members have been actively
13 involved in the advancement of U.S. positions in
14 international standards organizations such as ISO and IEC.
15 We currently administer 68 U.S. technical advisory groups to
16 ISO and IEC that are part of the technical committee system
17 of ASTM.

18 This consists of 1800 members who serve as TAG
19 participants with the objective of developing and promoting
20 U.S. technical positions internationally, a policy which is
21 consistent with what the Board of Directors of ASTM wants to
22 have happen.

23 The issue of effective participation by U.S.
24 interests in international standards activities has been
25 debated for many years within ASTM and I am aware of debates

1 going on in other organizations as well.

2 The issue often comes down to one major subject --
3 finances. Within our heterogeneous society, there are U.S.
4 industries that effectively support a U.S. position in
5 international standards. I am talking now ASTM.

6 However, there are many others that have
7 difficulty maintaining the level of financial commitment
8 necessary to offer consistent and credible U.S.
9 representations, and the reason, of course, are many, but in
10 some instances, the subject matter is perceived by some of
11 our constituents to be more phenomenal logical than product
12 or material oriented.

13 In other cases, the interests involved perceive
14 that there is no direct benefit to the economies of the
15 industries involved.

16 Another variable that may be factored in for some
17 is that the international standards to date may not have
18 been as an important an element in the issue of trade, but
19 we believe all that is changing.

20 To go on, the notice of this hearing addresses the
21 subjects of standards, standards participation, standards
22 usage, testing and certification.

23 The system for developing standards in the U.S.
24 has been for many years demonstrated how an effective
25 partnership, an effective partnership between the private

1 and the public sectors can work.

2 Is any of this documented in law? No, it is not.
3 Included in this effective government participation along
4 with ASTM in the process of standards development, I would
5 like to stress to this group and to the panel how important
6 it is that we do thing in an appropriate manner, and much of
7 it has been already described in OMB Circular A-119 and by
8 the presence of government agencies and government employees
9 in the standards process of ASTM.

10 We believe that the system as it is currently
11 constituted works very well.

12 To us, the issue is not that of a greater presence
13 or a greater role for the federal government in the process
14 of standards development. In fact, we believe in our system
15 that the government is quite pleased with the way it works
16 with us.

17 I would like now to address some remarks -- moving
18 away from the process of standards development -- but to
19 work on the ultimate objective, and that is the promotion of
20 the final result of the process, the voluntary standard.

21 For many years we have discussed ways in which we
22 could better promote U.S. industry and the economy through
23 the dissemination of ASTM standards. Standards are one of
24 the most effective means of transferring technology to
25 trade, and I doubt if there is one person in this room that

1 does not believe that.

2 On the other hand, we are convinced that there is
3 a role for the Federal Government working cooperatively with
4 industry and standards developers to further promote the
5 utilization of private sector standards both domestically
6 and internationally.

7 The key word here is promote the use of the
8 standards.

9 An element of this promotion may be efforts
10 between specific industries and the Federal Government to
11 promote in the global marketplace existing U.S. standards
12 which are viewed as critical to the advancement of U.S.
13 industry and U.S. objectives.

14 Moreover, it is not beyond the realm of
15 possibility that the U.S. Government could more fully
16 promote, more fully sanction, and endorse the quality of
17 U.S. standards documents. For example, the Federal
18 Government could negotiate, such as with the European
19 community for the acceptance of specifications and test
20 methods developed by ASTM because they are globally
21 recognized technical quality and they are globally used in
22 world trade.

23 Another cooperative arrangement could include, but
24 not be limited to, programs to provide adequate financial
25 resources for the attendance of U.S. experts at

1 international meetings.

2 In all of these arrangements, we should work at
3 defining the problem that exists, and in turn, developing
4 the specific strategies that will assist us.

5 On the other hand, we should not rush to establish
6 new structures or move in a direction that is responsive
7 only to the attainment of perceived, perceived short-term
8 solutions which in themselves could contribute to long-term
9 problems.

10 For ASTM, the justification to form a U.S.
11 organization similar to the Standards Council of Canada is
12 not clear. We have therefore concluded that we are not in a
13 position to support the concept, we are not in a position to
14 support the concept of a Standards Council of the United
15 States at this time.

16 We simply don't know enough about the organization
17 that could be constituted. We are not in a position to
18 comment on the formation of such an organization until
19 adequate documentation is made available.

20 What ASTM does recognize and support is the need
21 for a central coordinating body that neither develops
22 standards nor interferes with the program initiatives of
23 standards developers.

24 We supported the initial implementation in 1980 of
25 a National Policy on Standards which describes the substance

1 of what we think is still very important today.

2 Within that position, ASTM recognized the need for
3 a central organization and it offered two fundamental
4 functions: The first, to safeguard the integrity of the
5 process by which voluntary standards are developed and
6 approved by non-government institutions; and secondly, to
7 work closely and cooperatively on standards-related matters
8 with government agencies at all levels -- federal, state and
9 local -- and with the Department of Commerce in its capacity
10 as the government standards coordinating center.

11 In addition, it needs to be demonstrated that the
12 private sector working in cooperation with existing federal
13 organizations is unwilling or unable to find the resources
14 to fill the current needs of the standards, testing and
15 certification systems of the United States, as well as to
16 provide an adequate interface role with the international
17 standards community.

18 ASTM strongly recommends that the role of the
19 Federal Government is to work in cooperation with the
20 private sector to support the voluntary consensus standards
21 system and the accreditation and certification systems of
22 the United States.

23 I see from my signal over there that I am a little
24 bit short on time, so I think then, with your approval,
25 ladies and gentlemen, I will move to the summary.

1 ASTM strongly recommends that the role of the
2 Federal Government is to work in cooperation with the
3 private sector. We believe that the Federal Governments
4 needs to take a pro-active role in promoting -- a pro-active
5 role in promoting the worldwide acceptance and use of
6 private sector standards.

7 By so doing, it will also be promoting the future
8 success of U.S. industry, the U.S. economy and the
9 advancement of U.S. technology throughout the world.

10 We recommend that the U.S. Government support
11 should be as follows: To work cooperatively with standards
12 developers to ensure that the U.S. has an effective central
13 coordinating body to advance U.S. international standards
14 objectives.

15 The Government should represent us in negotiations
16 to support U.S. voluntary standards as documents of trade,
17 and to work cooperatively with industry sectors to support
18 an effective U.S. participation in international standards
19 activities.

20 I will conclude now by saying I once again
21 congratulate our Federal colleagues in convening this
22 meeting and I will look forward to hearing the positions of
23 the rest of the individuals who will be making statements
24 before this group.

25 I apologize, Dr. Warshaw, for running a tad over

1 -- oh, there it goes. I thank you for your kind attention

2 CHAIRMAN WARSHAW: Thank you, Mr. O'Grady. You
3 were ten seconds short of the beep.

4 Questions from the panel? Mr. Donaldson.

5 MR. DONALDSON: Joe, do you have anything that you
6 would care to amplify with respect to the statement of
7 endorsing the private sector standards. You mentioned that
8 one role for the government would be to endorse private
9 sector standards with respect to international applications.

10 MR. O'GRADY: Yes. The thought occurred to us as
11 a result of conversations that we had between some of our
12 people here in Washington with some of the people in
13 government that it is not beyond the realm of possibility
14 for the United States Government to take a pro-active role
15 and to negotiate with the European community, or any other
16 community, any other community, at least the possibility of
17 negotiating situation to have as a result of a declaration
18 by the United States Government as to the quality of the
19 ASTM standards which are used in so many government
20 agencies.

21 If it is good for the U.S. Government, why should
22 it not be good for other countries of the world, including
23 the European community?

24 Does that answer your question, John?

25 MR. DONALDSON: Yes. Thank you.

1 CHAIRMAN WARSHAW: Mr. Ludolph.

2 MR. LUDOLPH: Mr. O'Grady, I was struck with your
3 comments about the need for financing.

4 MR. O'GRADY: Pardon?

5 MR. LUDOLPH: The need for financing in the
6 standards system in the United States, and the issue before
7 us is whether financing comes to an activity that is seen as
8 relevant by the U.S. business community.

9 In the past, if, for example, the CEN process is
10 closed to U.S. standards makers, it is not useful to attempt
11 to develop a standard or to participate in something that is
12 irrelevant to their decision-making, and there has been some
13 discussion about how relevant ISO and IEC activity is for
14 the standardization processes which international activities
15 -- either multi-national activity or trade -- is not heavy
16 in that sector.

17 With that being said, the U.S. standard system
18 produced some of the best standards in the world ---

19 MR. O'GRADY: The best standards in the world,
20 Charles.

21 MR. LUDOLPH: And therefore across the board they
22 produced the best standards in the world ---

23 (Laughter.)

24 MR. LUDOLPH: The question I want to put before
25 you is if there is two or three systems outside the United

1 States that are bent on developing standards independent of
2 global standards or international standards, will the best
3 standards in the world be able to withstand the competitive
4 and government pressure coming from CEN and from other
5 standards organizations such as the Japanese Institute of
6 Standards, here, in this economy?

7 MR. O'GRADY: Does that end the question, by the
8 way?

9 MR. LUDOLPH: Yes.

10 MR. O'GRADY: Would you repeat the question?

11 (Laughter.)

12 MR. LUDOLPH: Can you compete?

13 MR. O'GRADY: Yes.

14 MR. LUDOLPH: Can the U.S. business compete?

15 MR. O'GRADY: I was only joshing you a little bit
16 there.

17 The essence of what I said involved that a
18 cooperative program could include but not be limited to
19 programs to provide adequate financial resources for the
20 attendance of U.S. experts at international meetings.

21 That, as far as ASTM is concerned, is an open-
22 ended statement because we know that there are organizations
23 and we know there are certain classes of people in the ASTM
24 constituency who have no resources because they don't have
25 the backing of a large or profitable corporation.

1 We need to have those people at the standards
2 council and the standards meetings of ISO and IEC so that
3 the one avenue left open to American industry to access the
4 European community is through ISO.

5 There are those who think that ISO or IEC is not
6 effective or it's too slow or any of those other things that
7 we have all heard over the years, it is up to someone else
8 to say that.

9 From the ASTM perspective, we are having in some
10 of our members a serious difficulty in getting the funding
11 to go to ISO meetings. That was the essence, Charles, of
12 what I was saying without trying to reflect on any other
13 organization or to be critical of them.

14 MR. LUDOLPH: Thank you.

15 CHAIRMAN WARSHAW: If there are no other questions
16 from the panel, I thank you both for your presentations and
17 I would ask both the ASME and IEEE representatives if they
18 would come to the podium.

19 (Pause.)

20 CHAIRMAN WARSHAW: Thank you, gentlemen. We very
21 much appreciate everybody's effort to confine themselves to
22 the time frame and we appreciate your willingness to
23 participate today.

24 First we have Mr. Oscar Fisher of the ASME who is
25 Chairman of that Standards Council, and if you would

1 introduce those accompanying you, Mr. Fisher.

2 MR. FISHER: Here is Mel Green, Associate Director
3 of ASME, and Director of Codes and Standards of ASME.

4 CHAIRMAN WARSHAW: Which one will make the
5 presentation?

6 MR. GREEN: I will make the presentation.

7 CHAIRMAN WARSHAW: Please, go ahead.

8 MR. GREEN: We certainly appreciate this
9 opportunity to present the views of the Council on Codes and
10 Standards of ASME.

11 As many of you know, ASME is a non-profit
12 education and technical society that was founded in 1880 and
13 now has over 119,000 individual members including nearly
14 19,000 student members.

15 A Board of Governors, elected by the membership,
16 manages the society. The Board of Governors has assigned
17 the duties associated with the operations of codes,
18 standards and related accreditation and certification
19 programs to the Council on Codes and Standards. This
20 statement reflects the views of that Council.

21 Since 1884, ASME has served the public through its
22 technical standards program. As early as 1898, ASME was
23 involved in international standards for testing materials.
24 When ASME began developing performance test codes and
25 criteria for testing materials, businessmen and engineers

1 had no recognized baselines against which to write a
2 purchase order nor an institute through which to participate
3 in international standards.

4 From this early involvement in domestic and
5 international standards, ASME participated in the formation
6 of such organizations as the American Society for Testing
7 and Materials, ASTM, and the predecessor organization of the
8 American National Standards Institute, ANSI.

9 ASME codes, standards, and related accreditation
10 and certification programs involve 122 projects with
11 approximately 600 codes and standards and 10 accreditation
12 and certification activities.

13 Approximately 4,000 volunteers develop the codes
14 and standards and serve on the committees addressing
15 accreditation and certification. An inherent part of ASME's
16 codes, standards, accreditation and certification programs
17 is due process.

18 Although ASME has been involved in developing
19 international standards for over 100 years, the United
20 States Government showed little interest in codes, standards
21 and related accreditation activities within the last few
22 years. In fact, it was not until the Kennedy rounds to
23 remove tariff barriers that the U.S. Government seemed to
24 have an interest.

25 After some study, the United States Government

1 brought an anti-trust suit against ASME so that we would
2 expand our accreditation activities from the United States
3 and Canada, to the rest of the world, and we did that.
4 Since October 1 of 1972, we have been operating on
5 accreditation programs and making our codes and standards
6 available throughout the world.

7 Today we are operating in 35 countries. Our
8 accreditation is recognized in 80 countries, so we have had
9 a great deal of experience with the government overview
10 because through the agreement that we have with the United
11 States Government, we have a host government who provides us
12 great services and some of the countries that we are
13 involved in today.

14 Just picture yourself going to some of the places
15 where our consultants and where the inspectors who work in
16 these plants must live and the U.S. Government has assisted
17 us in these areas for nearly 20 years.

18 Now, ASME is administrative secretariat of both
19 IEC and ISO related committees, both the administrative
20 secretariat and TAG's where ASME has the interfacing
21 domestic committee, we have the technical advisory group
22 also.

23 Recently, ASME acted to return two administrative
24 secretariats to ANSI and we previously referred others to
25 ANSI for administration of secretariats.

1 From our recent experience, this would suggest
2 little likelihood that industry will provide the necessary
3 financial support for the administrator or for the qualified
4 people necessary to represent the United States.

5 Therefore the United States Government must assure
6 that Americans are properly represented. The standards
7 negotiations involve government interface. It is essential
8 that the United States Government provide leadership.

9 There are parts of this written statement that I
10 am omitting because of some restraints we have this morning,
11 but this, as Dr. Warshaw has said, will be made available.

12 An ASME bylaw provides for a Board on
13 Accreditation and Certification. Part of the role of that
14 Board is to provide internal audit of ASME. ASME has
15 implemented that bylaw provision by having four agencies of
16 the Federal Government who use our accreditation as a means
17 of satisfying their regulatory requirements, to audit us on
18 a regular basis on an unannounced basis.

19 Now, this program has worked very well. When we
20 first asked the federal agencies to participate in the
21 program, they questioned our motives as to whether we were
22 trying to get a leg up in the courts or whatever.

23 No, we are trying to make sure that we are living
24 up to our own quality programs. We may go all over the
25 world and review of peoples' quality assurance programs and

1 we felt that we should have an outside body or an outside
2 agency monitoring us to make certain that we are meeting our
3 own programs.

4 The need for a level of due process is
5 particularly critical where there is a dominance occasioned
6 by a few in an essential industry.

7 In those situations, the American National
8 Standards Institute cannot provide the forum for objectivity
9 and fairness in decisions because of the dominance by a few
10 players. During the past two decades, there has been
11 situations where a dominance of power has prevented the
12 United States from having American national standards in
13 some areas that are vital to health, safety and resources
14 and probably just as important, this lack of a forum for
15 consensus has prevented the United States from having a
16 voice in developing international standards.

17 Now, the Council on Codes and Standards recommends
18 a United States of America standards, accreditation,
19 certification, oversight and investigative institute. This
20 institute will develop through consensus the criteria for
21 standards and accreditation bodies and audit accredited
22 organizations to assure compliance.

23 Such an institute would provide for a level of due
24 process to assure lack of bias and competitive opportunity.
25 It would also provide the necessary forum to develop United

1 States positions on standards and accreditation issues and
2 represent the United States in negotiations with other
3 governments.

4 This institute may mean the difference between
5 disorganized private sector standards developers and
6 accreditation program administrators and a healthy worldwide
7 system for standards, accreditation and certification
8 programs.

9 As part of the creation of such an institute, it
10 would be required that any standards developer or
11 accreditation sponsor that desires to be referenced in
12 federal procurement contracts or regulations be accredited
13 by this institute and be willing to participate with
14 government, industry and the public in its management.

15 I thank you.

16 CHAIRMAN WARSHAW: Thank you, Mr. Green. Are
17 there any questions of ASME from the panel?

18 Well, we thank you.

19 Let us then move on to IEEE. Marc Migliaro is
20 Chairman of the Standards Board of IEEE. If you would
21 introduce your associate.

22 MR. MIGLIARO: Thank you. I have with me Andy
23 Salem who is the staff directors of standards for the
24 institute, and we also have with us who is in the audience,
25 today, Don Fleckenstein, past directors of standards for the

1 institute.

2 I would like to thank you very much for the
3 opportunity to be here this morning.

4 IEEE is a scientific and educational institution
5 whose purpose is to advance the theory and practice of
6 electrical and electronic engineering and computer science.

7 It also strives to enhance the quality of life for
8 all people. IEEE is a trans-national organization with
9 315,000 members through the world. The fastest growing
10 segment of its membership is the non-U.S. group.

11 One of the technical activities of IEEE, aimed at
12 carrying out its trans-national mission, is the development
13 and dissemination of standards. Historically, IEEE has been
14 closely associated with the U.S. voluntary standards
15 activities.

16 More recently, because of the trans-national
17 composition of its membership, the IEEE standards program
18 has addressed the need for standards that can serve all
19 nations. Indeed, some standards have been recognized and
20 used by other countries of the world and adopted by
21 international bodies.

22 From a trans-national perspective, therefore the
23 IEEE views EC 92 as a significant event in the evolution of
24 the expanding need for and interest in global standards.
25 However, the event should not cause us to lose sight of the

1 larger goal of global standardization.

2 It should be noted that IEEE is not at present in
3 certification or testing. Our discussion, therefore, is
4 limited to the international standardization aspect of this
5 hearing.

6 Whether the U.S. is adequately represented and
7 prepared to participate in the evolutionary process leading
8 to global standards is the thrust of this discussion. If
9 this were a simple issue, the simple answer would be yes.

10 But the subject and issues are not simple. In
11 order to maintain an affirmative view, a number of these
12 issues have to be explored with the goal of assuring
13 positive action for the continuation and growth of necessary
14 participation.

15 The output of a standards process are criteria
16 that serve in determining the acceptability of products,
17 processes, and information. To be used for such purposes,
18 the criteria have to be found acceptable by those that would
19 implement them.

20 A decision to accept the criteria has to take into
21 account national laws, consumer interests, environmental
22 matters, security issues when applicable, and perhaps a
23 myriad of other concerns.

24 Only when such factors are satisfied will a
25 standard be found acceptable for use. The process by which

1 all these factors are considered is, by nature, time-
2 consuming but is essential to assuring the acceptance of
3 standards.

4 Fundamental to involvement in the global
5 standardization effort is adherence to the basic tenet: the
6 right of participation. Commitment to this principle is
7 critical, and any deviation from it weakens a position and
8 jeopardizes the acceptability of the result.

9 Therefore, it is essential that any
10 standardization be founded on this principle. Any move to
11 mitigate this right by requirements of organizational
12 affiliation, financial contributions, or other participation
13 constraints threatens acceptance at the international level.

14 In the U.S., the voluntary standards system is
15 dependent on financial support from membership fees,
16 contributions, and the sale of documents. These financial
17 underpinnings for international work have been threatened
18 recently by membership reduction due to corporate down-
19 sizing, mergers, and other steps taken to ready commercial
20 enterprises for competition in the world market.

21 In addition, fluctuations in currency values,
22 increased costs of foreign travel, and so forth, further
23 erode the already decreasing financial support. These
24 events strain the ability of the U.S. standards developers
25 to participate internationally, even assuming the domestic

1 process was in order.

2 A major issue, therefore, is the funding required
3 to maintain membership in international standards
4 organizations and the support for delegates to attend off-
5 shore meetings.

6 At this point, let us consider the relationship
7 between the government and the private sector in global
8 standardization. The need for standards to serve a
9 worldwide market includes, for example, the European
10 Economic Community and the U.S./Canada Free Trade Agreement.

11 These government-to-government relationships are
12 exclusively in the province of the Federal Government.
13 Relationships with other governments and treaty
14 organizations include standards policy matters and may
15 include standards development programs.

16 These activities of the Federal Government and
17 comparable activities in the private sector have a common
18 goal of serving the nation's trading needs. It is timely
19 that the government and the private sector approaches to the
20 goal be aligned.

21 World conditions have changed with the advent of
22 the European Community and the U.S./Canada Free Trade
23 Agreement. The changes, however, do not require the
24 assignment of international standards responsibility to the
25 Federal Government. Such a move through the Standards

1 Council of the United States of America is seen as
2 diminishing the role of the private sector without regard to
3 its past involvement and successes.

4 What is needed at this juncture is a statement of
5 the respective roles of, and interfaces between, the private
6 and public sectors. Outlining the roles and interfaces
7 should be a first step in the development of appropriate
8 relations. This would strengthen the U.S. position in
9 international discussions.

10 It must be emphasized the IEEE does not promote
11 nor encourage the development of national standards as a
12 basis of negotiations internationally. Global
13 standardization and the pace of the worldwide market growth
14 requires rapid and proper development of positions for the
15 purpose of preparing internationally acceptable documents.

16 By definition, such documents should be applicable
17 within all nations. There is no time to lose in moving
18 toward this goal.

19 It is appropriate to repeat our earlier
20 affirmative position regarding the adequacy of U.S.
21 participation in the international arena, and that there are
22 other areas in need of attention, some of which have been
23 outlined above.

24 Therefore, it is proposed that these areas as well
25 as the others presented during this hearing serve as an

1 agenda for a committee of experts on the subject. Such a
2 committee should be convened in the near future by the
3 Director, Office of Standards Services, NIST, to prepare
4 recommendations to the private and public sector on a
5 National Policy for International Standards.

6 In summary, the committee should address such
7 issues as assuring the right of participation of all parties
8 of interest; assuring the continuation of the present
9 participation level in international standardization and
10 take into account the expected growth in this area;
11 establishing viable, long-term funding for international
12 involvement; defining the respective roles of and interfaces
13 between the private and public sector.

14 Encouraging the development of international
15 standards is the first step in preparing national standards,
16 and finally, developing a national policy on international
17 standards. The policy should not be limited to EC 92, but
18 should speak to the need of global standardization in light
19 of the development of a world market.

20 This concludes IEEE's statement. Thank you very
21 much.

22 CHAIRMAN WARSHAW: Thank you very much, Mr.
23 Migliaro.

24 Are there any questions from the panel? And let
25 me say while we have both here, it could be to either ASME

1 or IEEE.

2 Mr. Donaldson?

3 MR. DONALDSON: When you mentioned, I believe,
4 that the IEEE membership is 315,000, would you be able to
5 comment on what percentage of what the number is that are
6 non-U.S., please?

7 MR. MIGLIARO: I guess, if we look at non-U.S. and
8 that would then include Canada, Mexico, about a third are
9 non-U.S.

10 MR. DONALDSON: Thank you.

11 CHAIRMAN WARSHAW: Are there any other questions
12 from the panel?

13 Mr. Ludolph.

14 MR. LUDOLPH: I would like to put this question to
15 both ASME and also IEEE, in that both organizations are
16 international-recognized programs -- one that has an
17 accreditation program and one that purely develops
18 international standards.

19 I wanted to ask, first of all, the degree that you
20 find that your standards development activities here in the
21 United States are influenced, recently influenced by the
22 development of standards overseas and how relevant the ISO
23 activities are to your standardization activities here, and
24 second, the degree, particularly in Mr. Green's and ASME's
25 case, to use international standards for the international

1 accreditation of programs -- whether your accreditation
2 program has a need to adopt more foreign or international
3 standards?

4 Obviously the last question is what affect would
5 that have on U.S., on your clients which are U.S.
6 manufacturers, and in some cases, state inspectors?

7 MR. GREEN: Well, you have a number of questions
8 there, so let me start from the back.

9 Insofar as our accreditation program is concerned,
10 well, we receive feedback from all of the countries where we
11 are operating. I think I mentioned before that we received
12 some 30,000 inquiries from users about the world to which we
13 respond.

14 Of course, these inquiries served as input to
15 propose changes in our codes and standards.

16 Now, insofar as using standards of other
17 countries, other standards developers insofar as
18 accreditation, there will be an accreditation program that
19 ASME will begin on May 16th of 1990 where we will accept
20 specifications developed by standards developers outside the
21 United States and Canada.

22 We will insist upon our own quality assurance
23 criteria for this accreditation, but the specification to
24 which the product is manufactured can be from recognized
25 standards developers located in other parts of the world.

1 CHAIRMAN WARSHAW: Mr. Salem, do you have
2 something you would like to say?

3 MR. SALEM: Well, IEEE considers its international
4 involvement very important to the program. The standard
5 board really has taken the position that new programs should
6 be addressed at global standardization. Regional standards,
7 national standards, at this time really don't seem to be the
8 way to go.

9 The trans-national program that we have underway
10 does recognize standards of other countries and there is a
11 mechanism to adopt such standards into the IEEE system.

12 I should mention that one of the criticisms that
13 we find as we travel around from the Europeans and other
14 places in the world is the lack of adoption of ISO standards
15 in the U.S. We intend to address that subject in IEEE to
16 the degree that we can.

17 CHAIRMAN WARSHAW: Thank you, Mr. Salem. Is there
18 any other questions from the panel?

19 Well, we thank you both very much for your
20 presentations.

21 MR. MIGLIARO: Thank you for the opportunity.

22 CHAIRMAN WARSHAW: Since it is early, I would like
23 to move to the next two presentations, the Instrument
24 Society of America and the Industry Application Society.

25 (Pause.)

1 We have Mr. William Calder, the Instrument Society
2 of America, if you would begin.

3 MR. CALDER: Thank you, Mr. Warshaw, and good
4 morning everyone. It is nice to know that I am at the right
5 spot at the right time, because I can confirm that my name
6 is William Calder and I am the President of the Instrument
7 Society of America.

8 I am here today to present ISA's position and
9 recommendations on improving United States participation in
10 international standards activities.

11 The Instrument Society of America is a non-profit,
12 educational organization and was founded in 1945 to advance
13 the application of instrumentation, measurement and control
14 in manufacturing and continuous process industries.

15 With more than 42,000 members, ISA is
16 internationally recognized as the leading organization for
17 instrumentation and control professionals. Our members
18 represent vendor, user, distributor, and general interest
19 groups and include engineers, scientists, managers, and
20 technicians.

21 Since its inception, ISA has operated an active
22 program for the development of consensus standards.
23 Currently, more than 3200 individuals participate in the
24 development of ISA standards and international standards in
25 the area of measurement and control technology.

1 ISA is an organizational member of the American
2 National Standards Institute and has been an ANSI-accredited
3 standards organization since 1976. Prior to 1976, ISA
4 standards were developed under the canvas method for ANSI
5 approval.

6 Responsibility for the development ISA standards
7 and participation in the development of international
8 standards rests with the standards and practices department
9 of the society.

10 The standards and practices department is managed
11 by the standards and practice board, which oversees the
12 activity of more than 125 domestic committees and
13 subcommittees as well as eight United States technical
14 advisory groups.

15 ISA also holds the secretariat of two
16 international electrotechnical commission subcommittees and
17 provides technical and administrative support for numerous
18 IEC and international organization for standardization
19 working groups.

20 A full-time professional staff located in Research
21 Triangle Park, North Carolina, provides support to this
22 extensive volunteer effort. ISA budgets more than \$650,000
23 per year in direct support of its standards program and has
24 published over 80 standards.

25 Approximately one-third of this budget, or nearly

1 a quarter of a million dollars per year is allocated for
2 international standards activities.

3 In addition, the Society, with the support of
4 industry, regularly sends representatives to participate in
5 the international standards committee meetings.

6 These experts receive technical support and advice
7 from the corresponding ISA domestic standards committees.
8 Because of these close ties and as a result of our long-term
9 commitment to the international effort, United States
10 participation has been very effective in the area of
11 industrial process measurement and control.

12 As the importance of international standardization
13 escalates, more involvement and coordination with domestic
14 efforts will be necessary. ISA intends, as part of its
15 long-range strategic plan, to actively participate in
16 international standards and practices activities for the
17 measurement, control and automation industries.

18 ISA International, a subsidiary of the society,
19 serves ISA members outside North America. Its European
20 region is supported by a professional staff located in
21 Brussels, Belgium.

22 Because ISA is an international organization, the
23 society benefits from the worldwide input to its standards
24 program. Although overseas members cannot participate in
25 any of the technical advisory group activities, they do

1 contribute to the other aspects of ISA's standardization
2 program.

3 We believe this open exchange of information and
4 early review of ISA proposals has lead to increased
5 acceptance of U.S. ideas in the international arena.

6 Based on our experience in both the international
7 and national standards arena, ISA strongly believes the
8 current standards system, managed by the private sector,
9 should continue.

10 Our voluntary system is sound and is supported by
11 industry. We have developed authoritative, widely-used
12 standards at the national level and continue to make
13 significant contributions internationally.

14 Despite the success we have enjoyed, we do,
15 however, believe significant improvements could be achieved
16 through government action in the following areas: First, by
17 increased participation by government employees; second, by
18 funding of standards developers; and third, by encouragement
19 for increased industry support.

20 ISA has an excellent support from the National
21 Institute for Science and Technology and its predecessor,
22 the National Bureau of Standards. This support has been in
23 the form of NIST scientists who serve as managing directors
24 on ISA's standards and practices board, committee chairmen
25 and committee members.

1 ISA encourages participation by NIST and other
2 government agencies such as the Department of Defense, the
3 Nuclear Regulatory Commission and others. ISA welcomes this
4 support and is open to expansion of it.

5 This support has, however, been severely limited
6 by the funds available for government personnel to attend
7 standards meetings in the United States and especially in
8 Europe. ISA believes very strongly that greater
9 participation by NIST personnel or other technical
10 government representatives in international standards
11 meetings would significantly strengthen the image and
12 effectiveness of the United States in the international
13 standards arena.

14 This increased level of participation could be
15 effected by two actions by the U.S. Department of Commerce.
16 First, authorization of funds to enable federal employees to
17 take a more active role in existing standards-developing
18 organizations; and second, encouragement by the heads of
19 federal agencies for the technical experts within the
20 agencies to seek out and accept more active roles in the
21 development of standards.

22 Further, ISA feels very strongly that the
23 consensus standards-developing system in the United States
24 would be greatly improved if additional funding were made
25 available to support existing channels of participation in

1 the international arena.

2 ISA recommends that the United States Government
3 establish a fund that would enable consensus standards-
4 developing organizations such as the Instrument Society of
5 America to send a larger number of representatives of U.S.
6 industry to international standards meetings.

7 This type of funding would greatly increase
8 participation by qualified technical experts from U.S.
9 industry. And, in particular, additional funding could
10 increase the extent of participation by employees of small
11 and medium-sized companies who presently cannot afford to
12 send their technical experts to international standards
13 meetings.

14 The amount of funding would be small relative to
15 other government expenditures, funds on the order of a few
16 million dollars combined with the substantial financial
17 investment already committed by the private sector could
18 have a tremendous impact on U.S. participation in
19 international standards.

20 Administration of the funds could be on a grant
21 basis, using mechanisms similar to those already in place by
22 the National Science Foundation, the Army Research Office,
23 and other federal funding agencies.

24 Finally, the government could encourage increased
25 participation by the private sector by instituting a program

1 of tax credits for industry standards participation similar
2 to the existing tax credits for research and development.

3 This action would provide a direct incentive for
4 increased support from industry. The resulting
5 participation would be market-driven and, as such, reflect
6 our free-enterprise system.

7 These three actions -- encouraging government
8 participation in voluntary standards development, making
9 funds available to standards developers, and extending tax
10 credits to industry -- could significantly strengthen U.S.
11 participation in the development of international standards
12 and improve the domestic standards system as well.

13 Now, the Office of Standards Services -- NIST --
14 has distributed the description of a proposed standards
15 council of the United States of America as a general model
16 to be considered as the way to solve the United States'
17 problems with international standards.

18 The proposed purpose of this model is to enhance
19 U.S. international commercial interests by creating an
20 infrastructure to sustain a cohesive national standards
21 system with oversight by a Board of Governors composed of
22 the representative public and private interests.

23 ISA is strongly opposed to the creation of a super
24 standards coordinating agency to displace the private sector
25 systems that are presently in place for the following

1 reasons:

2 Present mechanisms such as the American National
3 Standards Institute and the U.S. National Committee of the
4 IEC are effectively coordinating U.S. participation in
5 international standards development at the present time.

6 The current system is sound and is serving
7 industry and the American public well. Speaking on behalf
8 of the industrial process measurement and control community,
9 we have been successful in having U.S. concepts and
10 standards adopted by international standards organizations.
11 U.S. Industry recognizes that international standardization
12 is a key factor in the competitiveness of U.S. firms.

13 Improvements in the present U.S. mechanism could
14 be made by greater participation from both the private and
15 public sectors, but that participation would be possible
16 only if increased funding were available.

17 It would be a much more efficient use of federal
18 funds to strengthen these existing mechanisms rather than
19 create a bureaucracy to replace them.

20 I see the red light is on so I will wind down here
21 and bring you to the summary.

22 The Instrument Society of America would welcome
23 the opportunity to expand on any of the points that we have
24 made by preparing more detailed information reports, by
25 working with NIST, or by working with ANSI, USNC/IEC, and

1 other bodies presently involved with coordinating and
2 representing ISA participation in the development of
3 international standards.

4 In conclusion, ISA supports the current standards
5 development system and recommends that the government work
6 with industry and the private sector to strengthen and
7 improve our international standards participation.
8 Specifically we recommend increased participation by
9 government employees; second, government funding for
10 standards development; and third, incentives for increased
11 industry participation and support.

12 ISA does not support the SCUSA model, nor do we
13 endorse government control over the voluntary, private
14 sector effort.

15 The Instrument Society of America welcomes this
16 opportunity to present our views on these important issues
17 facing the United States. We look forward to continued
18 cooperation and support among industry, government and the
19 standards developing community.

20 Thank you. I would also like to enter a copy of
21 this for the record.

22 CHAIRMAN WARSHAW: We appreciate it. Yes, we will
23 be happy to include your full text for the record.

24 Questions from the panel? Mr. Leight

25 MR. LEIGHT: Yes, when you talk about government

1 funding and tax credits, may we presume you are talking
2 about legislation?

3 MR. CALDER: I presume that sort of mechanism
4 would be required.

5 CHAIRMAN WARSHAW: Does the panel have any other
6 question of Mr. Calder?

7 Thank you, Mr. Calder.

8 MR. CALDER: You're welcome.

9 CHAIRMAN WARSHAW: Mr. Johnson now from the
10 Industry Applications Society. Mr. Johnson.

11 MR. JOHNSON: Thank you, Dr. Warshaw. It is
12 indeed a pleasure to be here today. The Industry
13 Applications Society is a society of the IEEE and our
14 position, or the position of IEEE was presented by Mr.
15 Migliaro and we certainly support that position.

16 It is my point to bring to this hearing the
17 opinions of the Industry Applications Society and my views
18 as 14 years experience as an IEC delegate and as a U.S.
19 manufacturer to those delegations.

20 I would like to say that the standards process
21 inside the United States is in good hands. It works. We
22 produce excellent standards and I believe it has already
23 been stated as the best in the world and I certainly support
24 that.

25 The carrying of those standards outside the United

1 States is maybe not as in good hands. We definitely need a
2 more coordinated position on our technical issues outside
3 the United States.

4 All of the various standard agencies in the United
5 States have not had a coordinated effort to carry the U.S.
6 position to the international marketplace. In today's
7 experience, the U.S. manufacturer who takes the initiative,
8 may represent the United States on a given technical
9 committee without the obligation to represent a specific
10 U.S. position. The only obligation he has is to represent
11 his own commercial interests.

12 The process of carrying the U.S. standards to the
13 international arena is further impeded as delegates from
14 other countries, particularly in Europe, are funded to
15 participate in their activities, and the U.S. manufacturer
16 is not always in a position to do so.

17 Standards coming into the United States, the U.S.
18 manufacturer should have a voice in acceptance and the
19 coordination of standards produced in other countries which
20 are being considered for acceptance in the United States.

21 In general terms, the U.S. manufacturers have
22 relied on technical groups such as the IEEE, the ASTM and
23 others, as a forum for producing standards. In addition,
24 special industry groups such as NEMA and others have
25 produced and coordinated with the above technical groups

1 such as IEEE and Underwriters Laboratories, Factory Mutual,
2 and others.

3 The U.S. manufacturer believes that his technical
4 base is protected because U.S. and other manufacturers are
5 required to produce to these standards. Coordination of any
6 standards coming into the United States involving products
7 to be marketed here with other standards definitely has a
8 Federal Government role.

9 As a starting point in better coordination of U.S.
10 international standards activities, it may be appropriate to
11 keep in place the current domestic standards process through
12 the various technical groups and third party certification
13 agencies and the national standards groups coordinating the
14 same.

15 On the international scene, it appears that there
16 is a definite need for a coordinating body to ensure that
17 the U.S. has accurate and complete representation on the
18 broad base of activities in the international standards
19 arena.

20 Additional points I would like to consider for a
21 government role is that the U.S. manufacturer should be able
22 to comment on standards in the draft stage which are being
23 put together outside of the United States in other
24 countries.

25 The U.S. manufacturer needs the same access to

1 test laboratories and information, particularly in Europe,
2 as the Europeans have here.

3 There is definitely a role for the Federal
4 Government to ensure the U.S. has a balanced voting position
5 in the IEC activities. The European community with the 12
6 voting countries can very often sway the ballot on a
7 particular technical issue.

8 And finally, the European community has and is
9 developing a strong infrastructure for quality certification
10 along with product certification. We are yet in the United
11 States in a position to do the same.

12 That concludes my remarks and I will answer
13 questions from the pane.

14 CHAIRMAN WARSHAW: Thank you very much, Mr.
15 Johnson.

16 Does the panel have any questions of either
17 presenter? Charles?

18 MR. LUDOLPH: Mr. Johnson, there are some aspects
19 of your testimony that would help with a little
20 clarification from my standpoint.

21 I believe you said at about midpoint in your
22 statement that there was, you saw a need or there was
23 concern on your part about a need to coordinate standards
24 that are coming into the United States.

25 Is that a representations of what you said?

1 MR. JOHNSON: Well, there is a very broad base of
2 activities in that regard, as you heard earlier here today.
3 Also, in our certification agencies, there are agreements
4 between -- existing today -- between certain U.S.
5 certification agencies and those outside the United States
6 for accepting products.

7 However, there is not a coordinated effort that
8 goes to the U.S. manufacturer base for seeing that the
9 standards from which we might accept products into the
10 United States agree with the products that are manufactured
11 by U.S. based companies.

12 MR. LUDOLPH: As you see it, does that impose or
13 has that imposed a burden on the U.S. manufacturer's
14 competitiveness to get products accepted or to compete on a
15 level playing field in the U.S. market?

16 MR. JOHNSON: I believe it is a chip in the card
17 game of the international standards activities. As we
18 negotiate our standards position outside the United States,
19 one of those cards that must be played is how we accept
20 standards inside the United States.

21 MR. LUDOLPH: So is the issue, as we have already
22 established from previous statements, that the world, the
23 United States has developed world class standards that are
24 the best in the world and are able to compete against
25 anything certainly in the U.S. market, and in that case

1 then, products that are developed that way, where is the
2 disadvantage in having an acceptance body accept a lower-
3 grade product or something manufactured to a standard that
4 isn't of the same level?

5 MR. JOHNSON: From my experience, it is very
6 subtle and it sometimes is because the products that are
7 manufactured outside the United States may be manufactured
8 to a same standard but through a different practice, a
9 different code of practice.

10 MR. LUDOLPH: If I could just switch gears one
11 minute, earlier in your statement, you indicated that you
12 felt there was a need or that there was a concern over more
13 closely coordinating the position of U.S. participants in
14 international standardization, that the idea of speaking
15 with one voice not only was a difficulty perhaps between
16 government and the private sector in the United States, as
17 has been stated in earlier testimony here this morning, but
18 also that companies were representing views that may be
19 proprietary or at least represented one single position
20 rather than a coordinated position.

21 That is something new to me and I was always under
22 the impression that coordination in certain international
23 standards bodies was handled through a coordinating
24 mechanism that ensured one voice. I wonder if you could
25 elaborate on that.

1 MR. JOHNSON: On the broad base, I can only give
2 you the benefit of my particular experience in that arena,
3 and the views that have been carried through certain
4 international technical commission meetings, IEC meetings,
5 have been those on occasion which were definitely
6 representing specific commercial interests.

7 MR. LUDOLPH: As it stands now, with the kind of
8 -- you elaborated at the end of your statement about some of
9 the concerns you had with your ability to participate in
10 international standardization and that tracks very well with
11 statements that were earlier made, that the key to good
12 competition and good standards is to have open and direct
13 participation in all standards development.

14 Do you see, in your opinion, a growing threat to
15 your competitiveness or your society's memberships'
16 competitiveness because of the generation of standards in
17 areas other than the United States on a closed basis?

18 MR. JOHNSON: I don't think the basis is closed,
19 but I think it is certainly slanted in favor of our
20 competitive countries outside the United States, from my
21 participation.

22 MR. LUDOLPH: Does that burden your manufacturers
23 or your participants?

24 MR. JOHNSON: Yes, it has.

25 MR. LUDOLPH: Thank you very much.

1 CHAIRMAN WARSHAW: Thank you. Are there any other
2 questions from any panel member?

3 Well, we thank both you gentlemen for presenting
4 us with your views. Thank you for your time.

5 We will now have a break and reconvene at 11:15.

6 (Whereupon, a brief recess was taken from 10:55
7 a.m. until 11:15 a.m.)

8 CHAIRMAN WARSHAW: If we could have the
9 representatives of the American Society of Civil Engineers
10 and the American Welding Society join us at the podium, we
11 would appreciate it.

12 (Pause.)

13 Gentlemen, it is a pleasure for us to have you
14 here. We would like to start with Mr. Decker of the
15 American Society of Civil Engineers.

16 Mr. Decker.

17 MR. DECKER: Thank you very much.

18 Good morning, I am James Decker. I'm vice
19 president of the engineering firm of Wilbur Smith Associates
20 and I currently manage international engineering design and
21 construction projects for that firm in Columbia, South
22 Carolina.

23 However, I am here today on behalf of the American
24 Society of Civil Engineers where I serve on the National
25 Board of Direction and I am the Board's contact member on

1 the management group dealing with codes and standards.

2 ASCE is a non-profit educational, technical and
3 professional society, founded in 1852 with the objective of
4 the advancement of science and profession of engineering to
5 enhance the welfare of mankind. ASCE currently has over
6 100,000 members of whom 10,000 are in foreign countries.

7 ASCE has been involved with standards development
8 since 1875 and from 1976 has been an accredited standards
9 development organization.

10 It is appropriate to note, for today's hearing
11 record, the importance of engineering and construction
12 standards to public health, safety and welfare. If building
13 and structural codes are the whole body of technical
14 guidelines for design and construction, then standards are
15 the essential bone and marrow of that body.

16 What begins as a private sector voluntary
17 standards effort ultimately becomes part of building and
18 construction codes and manuals in the hands of thousands of
19 federal, state and local government officials.

20 The architectural and engineering community then
21 designs public and private buildings and structures to
22 conform to these codes. By recognizing that each of us is
23 touched by the far-reaching effects of codes, we realize
24 that it can make a difference whether those code-referenced
25 standards are domestic or international; U.S. or German.

1 Although there are continuing efforts in the
2 United States to harmonize the existing three major building
3 codes, we understand that the EEC has already drafted a
4 European community-wide compendium of model provisions for
5 building regulations.

6 The stated purpose of the unprecedented compendium
7 is international harmonization of building requirements. We
8 are not aware of any involvement of the U.S. private sector
9 in the development of this compendium.

10 It is conceivable that the European Compendium
11 could exert a great deal of influence on building
12 regulations and codes worldwide.

13 As the United States endeavors to maintain a
14 strong competitive position in the global marketplace, the
15 importance of compatibility among national and multi-
16 national codes and standards becomes very apparent.

17 In our opinion, ANSI has not been able to
18 adequately fulfill its role. Generally, ASCE -- that is,
19 the society -- believes that the public and private sectors
20 should develop a joint standards policy with no reduction of
21 the private sector's time-honored role in standards
22 development.

23 After 115 years of involvement in the U.S.
24 domestic standard development system, ASCE believes that our
25 voluntary decentralized standards system is among the most

1 effective and fair systems in the world.

2 The Society opposes the accreditation function of
3 the proposed standards council of the United States of
4 America which would have that organization accrediting U.S.
5 standards developers. On the domestic side, ASCE supports
6 maintaining and strengthening the existing standards
7 development system.

8 On the other hand, we are confronted with two
9 major obstacles in our drive to improve international
10 standards participation. One is the lack of committed
11 resources. The other is lack of coordination among those
12 concerned with international standards.

13 ASCE believes some government action is necessary
14 to overcome these obstacles and recommends a private
15 sector/government partnership in standards activities. It
16 is unlikely that the many segments of the domestic standards
17 development system will be able to agree on a unified focus
18 and a common voice in international standards without the
19 government playing a collaborative role.

20 Current U.S. participation in international
21 construction-related standards is weak and inadequate. It
22 must be improved to broaden the acceptance of U.S.
23 technology, professional services and construction products
24 in the global marketplace.

25 Goods and services of the design and construction

1 industry are exported, imported, marketed and regulated
2 through the common language of standards.

3 Of particular interest to the engineering
4 profession are the nine Eurocodes for structural design
5 developed by the European community. ASCE does have
6 counterpart standards in most of these areas, but these need
7 to be harmonized for international trade.

8 In some areas, there are major differences to iron
9 out before we can attain truly international standards.

10 Despite these obvious reasons for involvement in
11 international standards activities, the engineering
12 professions have not been adequately involved. Nor have the
13 construction contractors nor the construction products
14 manufacturers been involved.

15 The reason for this void is lack of adequate
16 financial resources. We need to find the mechanisms that
17 will permit greater cooperation between the public and
18 private sectors, in supporting U.S. participation in
19 international standards.

20 Perhaps there should be contributions from the
21 Federal Government, but industry contributions must also
22 increase in order to ensure a stable source of funding.

23 Therefore, what is the ASCE blueprint for
24 improving U.S. participation?

25 The need for improving that participation in

1 international standards activities has been identified. The
2 next step is to develop a national consensus on the means
3 for that improvement.

4 ASCE recommends that a national study commission
5 be quickly established through an act of Congress and
6 appointment by the President. The commission should be
7 charged with recommending a structure or procedure for
8 enhancing the effectiveness of the United States in
9 international standards activities.

10 The study commission must have a balanced
11 membership, broadly representing all affected interests,
12 including but not limited to standards developers, technical
13 and engineering societies, code authorities, government
14 procurement and regulatory agencies, international trade
15 interests and industrial groups.

16 The study commission should be adequately budgeted
17 and staffed and should have no more than 12 months from its
18 establishment to report its recommendations to the President
19 and the Congress.

20 If such a commission existed today, ASCE would
21 offer the following six principles as a framework for its
22 deliberations: One, the existing domestic standards
23 development system should be maintained and strengthened.
24 Two, a unified focus on standards activities should be
25 developed.

1 Three, a private sector/government partnership on
2 international standards activities including financial
3 responsibility on the part of both sectors, should be
4 established and nurtured.

5 Four, a private sector voice in international
6 standards should be preserved.

7 Five, increased private sector understanding and
8 support for participation in international standards
9 development is deemed essential, and six, the deliberations
10 of the commission should result in a consensus of thought
11 and a recommended process for enhanced U.S. participation in
12 international codes and standards activities.

13 ASCE does not believe it has all the answers,
14 obviously, on this complex question of international
15 standards, but ASCE believes strongly that these six
16 guidelines enunciate the correct initial approach for the
17 United States to take in improving the effectiveness of
18 participation in the international standards arena.

19 In closing, the American Society of Civil
20 Engineers offers its assistance to the federal government
21 and any interested party in working actively to resolve the
22 thorny issues of this dialogue.

23 We commend the National Institute of Standards and
24 Technology for demonstrating leadership and concern for the
25 long-term health of American science and technology by

1 convening this hearing.

2 Thank you, Mr. Chairman.

3 CHAIRMAN WARSHAW: Thank you, Mr. Decker. We will
4 be happy to include the full text of you and everyone else
5 in this hearing in the record.

6 Are there questions from the panel? Mr. White.

7 MR. WHITE: Mr. Decker, you gave a very good
8 example of differences in standards both within the United
9 States as well as the fact that Europe has proposed some
10 standards in structural design area and I assume you are
11 using that synonymous with the building code reference you
12 made earlier, correct?

13 MR. DECKER: Yes, correct.

14 MR. WHITE: I was just wondering in terms of the
15 focus of this hearing if you could comment specifically on
16 what the different parties in the United States need to do
17 specifically about dealing with the fact that number one, we
18 don't have coordination in the United States with respect to
19 the building codes -- I think you said there are three
20 different building codes.

21 And second of all, the European community has
22 already proposed some building codes so I was wondering if
23 you could expand upon your testimony and speak specifically
24 on these differences as to what you think needs to be done
25 about it, both by the government as well as by standards

1 developers here in the private sector.

2 MR. DECKER: It is a subject that the society has
3 talked about at some length. Unfortunately, ASCE does not
4 have a unanimity of opinion even within the various
5 committees.

6 I don't think that I personally can address your
7 question, Mr. White, of exactly what role the society is
8 going to be playing in this coordination. We identify it as
9 a problem. We identify it particularly that when we look at
10 international competition, we feel as a society that the
11 European community is doing a lot more towards this
12 coordination, a lot more than we are in this country.

13 But specifically, the society doesn't have a
14 program addressing this so I can't be any more specific than
15 that, I'm sorry.

16 CHAIRMAN WARSHAW: Mr. Donaldson.

17 MR. DONALDSON: Mr. Decker, you've confined your
18 remarks to the standards development side and yet in the
19 United States, the majority of the testing and certification
20 activity does relate to the building community and building
21 products industries.

22 I wondered if there is anything you might care to
23 comment or offer as an observation with respect to testing
24 and certification as it might bear on the issues we're
25 looking at here.

1 MR. DECKER: The reason for the focus of our
2 remarks is the fact that we are a standards development
3 organization. That's where we put our energies. We realize
4 that the other organizations do exist and we realize that
5 there are issues in the testing and the certification area.
6 I think I would leave that to others to comment on because
7 our remarks are really from the perspective of ASCE as a
8 standards development group.

9 MR. DONALDSON: So there was no intention.

10 MR. DECKER: No intention to eliminate it or no
11 intention to -- it is really to focus in on what we do best.

12 MR. DONALDSON: Thank you.

13 CHAIRMAN WARSHAW: Ms. Moore.

14 MS. MOORE: You have mentioned the need, as have
15 other participants, for increased private sector
16 participation and support for international standards
17 activities.

18 I wonder, could you tell us, in your vision, does
19 that include increased acceptance of existing international
20 standards where those are not well-disseminated in American
21 manufacturing?

22 MR. DECKER: I'm afraid I don't quite follow your
23 question.

24 MS. MOORE: I guess the question is, is increased
25 participation in international standardization a two-way

1 street in your opinion?

2 In other words, when you go out to develop new
3 standards, does that also involve an increased commitment to
4 existing international standards which are not now being
5 used in the United States?

6 MR. DECKER: Well, I think the increased support
7 from the private sector that we are talking about is
8 mandatory. I guess I would generally agree that it is a
9 two-way street, as you have described.

10 I don't really have any further comment on that.

11 CHAIRMAN WARSHAW: Thank you very much, Mr.
12 Decker.

13 MR. DECKER: Thank you.

14 CHAIRMAN WARSHAW: We now have Mr. Richard Alley
15 of the American Welding Society.

16 MR. ALLEY: Thank you, Dr. Warshaw.

17 The American Welding Society wishes to express its
18 appreciation to the National Institute of Standards and
19 Technology for the opportunity to express its views on the
20 subject of international standards participation.

21 AWS is a professional technical society with over
22 36,000 individual members throughout the world. A fact
23 sheet on AWS is attached to the statement.

24 To establish our credibility in the field of
25 standards, the following information is relevant. AWS first

1 issued its welding standard in 1922. Today it has over 100
2 current standards on welding and related subjects.

3 Most of these are American National Standards,
4 having been approved by the American National Standards
5 Institute, ANSI. AWS has been an accredited standards
6 developing organization in the ANSI system since 1979.

7 Twenty-five technical committees with over 1000
8 volunteer experts comprise the workforce that develop and
9 maintain our standards.

10 Internationally, AWS has been delegated the
11 administration of two committees: ISO TC 44, for Welding
12 and Allied Processes, and IEC TC 26, for Electric Welding.
13 In addition, it is the secretariat for the American Council
14 of the International Institute of Welding, an ISO approved
15 international standards developing organization.

16 As a result of the Single European Act of 1992 and
17 other global market initiatives, it is only natural for the
18 United States to examine the mechanics in place to deal with
19 these issues.

20 AWS has participated in discussions with other
21 peer organizations and concludes that no significant
22 problems have been identified to warrant a change to
23 different systems of operation.

24 As an organizational member of ANSI we have also
25 concluded that, while the structure is sound, there is

1 certainly a larger role for the government to play in the
2 system.

3 In addition to the areas where only government can
4 operate such as treaties and regulatory areas, the
5 government could accelerate its program of adoption of non-
6 government standards, and the acceptance of these standards
7 in lieu of what is generally referred to as military
8 specifications.

9 This will pay dividends in at least two ways.
10 First, it will eliminate an inordinate amount of unnecessary
11 duplication of effort in maintaining military specifications
12 for civilian items.

13 Second, it will allow government experts to
14 participate on the standards developing committees of
15 voluntary standards organizations. This second point will
16 enhance the position of the United States in international
17 standards activities since it is these committees that
18 provide the experts for those activities.

19 In response to questions relating to government
20 financial support for international standardization
21 activities, it would appear that no direct support is
22 warranted.

23 Indirect support in the form of tax credits to
24 companies that participate in international standards
25 activities would be a more prudent, consistent, and long-

1 term solution.

2 There is concern that direct government financial
3 support could lead to government control. This would
4 undermine the fundamental philosophy of the voluntary
5 consensus system that has operated well for decades.

6 In conclusion, AWS wishes to suggest that the
7 current system of handling international standards
8 activities administered by the American National Standards
9 Institute is adequate and that no significant changes are
10 warranted.

11 Indirect government support in the form of tax
12 credits to companies that participate in international
13 standards activities is one way to assist in providing
14 greater participation in those activities.

15 Thank you for the opportunity to present these
16 views.

17 CHAIRMAN WARSHAW: Thank you, sir. Does any panel
18 member have a question?

19 Well, I thank you both very much for your fine
20 presentations and the time you spent.

21 I would now like to ask Mr. Hahn of the American
22 Society of Agricultural Engineers if he could come forward.

23 (Pause.)

24 We are running about a half hour ahead of schedule
25 so this will allow people to have a somewhat lengthier lunch

1 hour. We will reconvene at 1:30. At the conclusion of this
2 morning's session, we will break for lunch.

3 We have both Mr. Russell Hahn and Mr. Robert
4 Lanphier, the American Society of Agricultural Engineers.
5 Welcome and please comment.

6 MR. LANPHIER: Good morning. Thank you, Dr.
7 Warshaw and members of the panel.

8 I believe that we ought to recommend, Dr. Warshaw,
9 that you be named protocol officer for hearings in
10 Washington for the way you run these hearings, which is
11 extremely well.

12 CHAIRMAN WARSHAW: We have sandbags above.
13 (Laughter.)

14 MR. LANPHIER: I am Robert Lanphier, President and
15 Chairman of AGMED, Inc. in Springfield, Illinois and
16 President-Elect of the American Society of Agricultural
17 Engineers.

18 With me today is Russell Hahn, Director of
19 Standards and Technical Services for ASAE, the society we
20 represent.

21 ASAE welcomes the opportunity to provide comments
22 to the National Institute of Standards and Technology in
23 their evaluation of the role of the Federal Government in
24 international standards activities.

25 The American Society of Agricultural Engineers is

1 a professional and technical organization of 11,000 members,
2 active worldwide in the application of engineering knowledge
3 and technology for agriculture.

4 Standardization has been a principal mission of
5 the society for 80 years, and standardization continues to
6 grow in importance to the agricultural industry.

7 The ASAE holds an important niche in the
8 federation of technical societies, trade associations and
9 agencies that develop and maintain consensus standards for
10 the U.S. economy.

11 The ASAE Cooperative Standards Program is the only
12 voluntary standards program in the world devoted exclusively
13 to the development of a system of standards and engineering
14 practices for agricultural equipment and processes.

15 ASAE is accredited by ANSI as a developer of
16 consensus standards. Under the auspices of ANSI, the U.S.
17 member body of ISO, ASAE administers U.S. Technical Advisory
18 Groups for several ISO subcommittees. The society works
19 cooperatively with the Equipment Manufacturers Institute and
20 the Irrigation Association in this area.

21 The notice for this hearing and the subsequent
22 materials distributed by the Office of Standards Services of
23 NIST implied an interest in assuming some level of
24 government control over the voluntary consensus standards
25 system that presently serves the interests of the United

1 States.

2 I refer especially to the outline for a Standards
3 Council of the United States of America.

4 ASAE strongly cautions against government
5 imposition of any fundamental change in the present
6 voluntary consensus standards system. The present, self-
7 regulating amalgam of organizations and agencies is
8 consistent with the principle of free enterprise and the
9 concept of volunteerism fundamental to the United States.

10 This is not to say that the system is perfect or
11 without problems and difficulties. However, there is
12 nothing to indicate that any present problem and difficulty
13 can be ameliorated or solved easily or more effectively
14 through imposition of government control or management.

15 The present system is self-regulating. ANSI
16 accreditation requirements assure that developers of
17 consensus standards follow a policy of openness and due
18 process. These elements are essential to the development of
19 standards to meet the needs of industry and commerce without
20 violation of antitrust law.

21 International standardization is beginning to
22 receive the level of attention from corporate America that
23 has been needed for the last 20 years. Activities in
24 Western Europe toward a single unified market are
25 stimulating the standards-writing community in the United

1 States to greater involvement with ISO and IEC and to the
2 harmonization of the U.S. and international standards.

3 Continuation of a strong partnership between the
4 Department of Commerce and the voluntary standards
5 developers is essential. ASAE deplores a divisiveness
6 implied by some correspondence and materials distributed in
7 relation to this hearing.

8 ASAE endorses principles set forth in the August
9 22, 1989 letter from Manuel Peralta, President of the
10 American National Standards Institute, to the Honorable Doug
11 Walgren, Chairman of the Subcommittee on Science Research
12 and Technology of the House Committee on Science Space and
13 Technology.

14 This letter concerns Mr. Pealta's testimony before
15 the subcommittee's hearing on July 25, 1989 concerning
16 international voluntary standards activities and the role of
17 the Federal Government.

18 These principles are stated: One, the formulation
19 of international trade policy for the United States is the
20 responsibility of the Federal Government. That policy has
21 been and should continue to be the realization of the global
22 marketplace free from artificial barriers to trade in any
23 form.

24 Two, voluntary consensus standards that are
25 developed and approved by private, non-treaty international

1 organizations such as ISO and IEC, are consistent with a
2 free trade policy and should be encouraged.

3 And three, in accordance with our free enterprise
4 system and considerations of efficiency and the proper
5 allocation of resources, the United States should be
6 represented in private, non-treaty international
7 organizations by a private sector coordinator of voluntary
8 standards development activity.

9 These principles make the respective roles of the
10 Federal Government and the federation of standards
11 organizations in the private sector quite clear.

12 The standards community in the United States has
13 made great strides in recent months to address the concerns
14 and to provide information relating to EC 92 as evidenced by
15 the ANSI Global Standardization News, Volume 2 and the
16 results of continuing meetings between ANSI-coordinated
17 private sector delegations and CEN, and CENELEC
18 representatives.

19 The exchange of correspondence between Assistant
20 Secretary for International Economic Policy, Thomas J.
21 Duesterberg and Mr. Peralta in letters dated September 18th
22 and November 15th, 1989, plus Mr. Duesterberg's address last
23 week at the ANSI conference confirm that the framework is
24 already in place for a strong partnership and coordination
25 between the private sector and the Department of Commerce

1 regarding international standardization.

2 ASAE applauds and encourages these efforts. ANSI
3 and its federation of U.S. standards-writing organizations
4 must maintain a lead role in relationship with international
5 private sector standards bodies such as CEN and CENELEC, ISO
6 and IEC.

7 The Department of Commerce of course must play the
8 key role in government interactions and trade policy. These
9 areas, however, must be carefully coordinated to best serve
10 the long-term interests of the United States.

11 There are areas where NIST and other offices of
12 the Department of Commerce can help strengthen U.S.
13 participation in international standardization. ASAE
14 encourages Federal Government assistance in educating
15 corporate America to the importance of standards.

16 Too few industry leaders recognize the full
17 benefit of standards to their companies and customers. The
18 Industry too often has taken the voluntary standards setting
19 process for granted. This deficiency makes it difficult for
20 engineers and others with technical expertise employed by
21 these companies to participate fully in the standards
22 development process both domestically and internationally.

23 Further, standards writing organizations such as
24 the ASAE Cooperative Standards Program need to be more fully
25 funded through direct company support on a consistent and

1 equitable basis.

2 Employee participation and financial support are
3 generally forthcoming when company management realizes the
4 impact of consensus standards.

5 We need your voice, the voice of the Department of
6 Commerce, to help educate corporate America to the benefits
7 of both domestic and international standardization. Also
8 the Department of Commerce can lead the way in educating the
9 general public to the importance of standards in daily life.

10 ASAE encourages the Department of Commerce through
11 the Interagency Committee on Standards Policy to continue
12 the use of private sector standards by the government
13 whenever practical, and to encourage broader participation
14 of government employees in the private sector standards
15 development process both domestically and internationally.

16 ASAE is fortunate to have the participation of
17 engineers from the USDA ARS, USDA SCS, EPA and other
18 government agencies. However government employees are
19 frequently unable to full lend their expertise to
20 international standardization because time and travel
21 support for that purpose are not available.

22 Funding of international standards participation
23 is difficult for technically qualified people employed in
24 industry, particularly for smaller companies to participate
25 and to be heard. The government should consider additional

1 tax or other incentives for direct industry support of
2 standards organizations such as the ASAE Cooperative
3 Standards Program and for direct expenses associated with
4 participation of employees in standards work.

5 In summary, ASAE sees no need for a fundamental
6 change in the U.S. voluntary consensus standards system. As
7 was pointed out earlier this morning, the system works very
8 well, and if it isn't broken, don't fix it, and certainly
9 don't screw it up.

10 (Laughter.)

11 I'm supposed to smile when I say that.

12 Further, ASAE urges a close and cooperative effort
13 between the standards development community and the
14 Department of Commerce in regard to EC 92 and the
15 relationships between standardization and international
16 trade.

17 ASAE encourages the Department of Commerce to
18 further support standardization by supporting educational
19 programs for corporate America, by encouraging and
20 supporting greater government employee participation in the
21 private sector standards process, and by promoting
22 additional incentives for industry support of private sector
23 standardization both domestically and internationally.

24 If the U.S. Government correctly wishes to support
25 the standards system through funding and other resources,

1 then let them do so in coordination with and through the
2 existing private sector standards infrastructure.

3 Thank you for this opportunity to be with you and
4 express the views of the American Society of Agricultural
5 Engineers.

6 CHAIRMAN WARSHAW: Thank you, Mr. Lanphier. We
7 appreciate your comments.

8 Any panel questions? Mr. Donaldson.

9 MR. DONALDSON: I am afraid this sounds a little
10 bit like the repetition of the question I asked the
11 gentleman from ASCE, but in the case of ASAE, do you have
12 any relationship with EMI, the Equipment Manufacturers
13 Institute, or other trade associations that are concerned
14 more in the testing side where it has been brought to our
15 attention that there had been questions in the past?

16 If you do have any involvement there, do you wish
17 to comment?

18 MR. LANPHIER: ASAE is concerned, as was expressed
19 earlier, with the standards setting and that is what we do
20 primarily as contract certification and accreditation.

21 CHAIRMAN WARSHAW: Any other questions? Ms.
22 Moore.

23 MS. MOORE: I would just like to round off by
24 asking you a little information about your organization.
25 You have 11,000 members. Are they all within the United

1 States or do you have overseas membership as well?

2 MR. LANPHIER: No, we have overseas members.

3 MS. MOORE: And to what extent are the standards
4 you developed used overseas, to your knowledge?

5 MR. LANPHIER: Pardon?

6 MS. MOORE: To what extent are the standards you
7 developed used in other countries, to your knowledge?

8 MR. LANPHIER: We have contributed to a number of
9 the ISO standards. Russ, do you want to comment?

10 MR. HAHN: This is a short leash. ASAE standards
11 frequently provide the technical basis for the U.S. position
12 in the development of international standards so to that
13 extent, at least, they are very supportive of the ISO
14 process.

15 Additionally, I am aware that many ASAE standards
16 are purchased not only by our members but others in overseas
17 countries.

18 I might respond a little further to your question.
19 We have members in over 100 countries, representing probably
20 roughly ten to fifteen percent of our membership.

21 MR. LANPHIER: If I might comment, it is a policy
22 also of ASAE to look at any existing ISO standards before we
23 start the domestic standards process.

24 MR. DONALDSON: I must say that your last
25 statement anticipated my question, but having thus said it,

1 I would like to follow up. Having looked at those
2 standards, is that a point of departure? Do you, in fact,
3 incorporate them? What do you do when you look at them?

4 MR. LANPHIER: Russ deals on these on an
5 operational basis.

6 MR. HAHN: Mr. Donaldson, we are really only at
7 the beginning stages of this entire process. We see the
8 great need for increasing efforts towards harmonization of
9 U.S. and international standards.

10 The intent would be, whenever possible, to adopt
11 the international standard. There may be circumstances
12 because of cultural practices or other safety reasons, for
13 example, that may not be practical for the United States to
14 follow the international standard.

15 In those cases, we should work towards changing
16 the international standard.

17 CHAIRMAN WARSHAW: I want to thank you both, Mr.
18 Lanphier, Mr. Hahn, for your fine contribution.

19 We will now adjourn for lunch. I would ask
20 everybody to be back here at 1:25 so that the first two
21 presenters can appear at 1:30 sharply. The first two will
22 be the National Fire Protection Association and the American
23 Association for Medical Instrumentation.

24 We are adjourned.

25

1 (Whereupon, at 12:15 p.m., the hearing was
2 adjourned, to reconvene the same day at 1:25 p.m.)
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A F T E R N O O N S E S S I O N

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2 CHAIRMAN WARSHAW: Welcome back. We'll open the
3 afternoon session. Again, for some of you that may have
4 missed the announcement earlier this morning, there is a
5 Federal Register notice out and we have extended the comment
6 period -- that is, for the receipt of written comments --
7 until June 5th, until the close of business June 5th,
8 another 60 days following this hearing in view of the number
9 of comments that we have received to date, as well as the
10 fact that some may be inspired as a consequence of these
11 oral presentations to submit additional comments.

12 So the comment period has been extended until June
13 5th.

14 This afternoon we are starting with two
15 organizations, the National Fire Protection Association and
16 the Association for the Advancement of Medical
17 Instrumentation.

18 So I will ask Mr. Tony O'Neill, Vice President of
19 the NFPA to introduce those with him and to offer his
20 comments.

21 MR. O'NEILL: Thank you very much, Mr, Chairman,
22 and thank you behalf of the NFPA and its 53,000 members for
23 this opportunity to present NFPA's views on the U.S.
24 standards system here today.

25 I am accompanied by Art Cote to my left who is

1 chief engineer of NFPA and runs our standards-making system,
2 and also Dan Piliero, NFPA's general counsel.

3 NFPA is an organizational member of the American
4 Standards Institute and in this connection, I also currently
5 serve as Vice Chairman of the Board of the American National
6 Standards Institute.

7 I am here today to tell you that we support the
8 American National Standards Institute and its coordinating
9 role here in the United States and its efforts overseas and
10 in fact, its renewed leadership overseas of the last couple
11 of years with respect to the EC 92 initiative.

12 I will be talking here today however about NFPA in
13 the time allotted.

14 NFPA has a very deep commitment in improving the
15 United States participation in international standards. As
16 was stated in the Federal Register notice which Stan has
17 just mentioned, the intent of this hearing is "the gathering
18 of information, insights, and comments related to improving
19 U.S. participation in international standards-related
20 activities and to possible government actions," and I
21 emphasize that last part.

22 We soon found out what this latter comment meant,
23 namely the Department of Commerce is exploring the
24 possibility of establishing a Standards Council of the
25 United States whose role would be to oversee and accredit

1 American private sector standards writers.

2 We are opposed to any additional government
3 regulation in this area, and I will elaborate on that, but
4 first let me tell you a little bit about NFPA.

5 I have mentioned we have 53,000 members. We have
6 4500 volunteers who work on our standards-making committees.
7 We have a staff of 350 who 90 percent of their activity is
8 in support of that operation.

9 And following my colleague, Joe O'Grady, this
10 morning, we would be more than happy to submit for the
11 record the 12 volumes of National Fire Code, some 8,000
12 pages of standards that are available from the NFPA for the
13 record.

14 In addition, internationally, NFPA has launched a
15 project with the Canadian Standards Association, CSA, to
16 harmonize the National Electrical Code and the Canadian
17 electrical code as a result of the Canadian/U.S. free trade
18 agreement.

19 The NEC, National Electrical Code, is one of the
20 most widely used safety standards in the world. We
21 distributed about a million copies of these over a three
22 year period.

23 It is sponsored by NFPA, along with the some 270
24 other codes and standards.

25 I should mention that NFPA has members in over 90

1 countries throughout the world. Our standards are quite
2 widely distributed and used in that fashion.

3 Now I would like to move on to why NFPA opposes
4 further government oversight by accreditation of private
5 sector standards-making organizations.

6 Simply stated, it is not necessary and it would be
7 counterproductive. Why? First and foremost, the U.S.
8 voluntary standards system is efficient, cost-effective,
9 highly productive and results in the promulgation of
10 thousands of quality standards each year.

11 No other nation produces as many quality standards
12 in as short a period of time at such a relatively small
13 cost.

14 Secondly, as the single largest users of private
15 sector developed standards, the Federal Government which is
16 represented here today, benefits most from the private
17 sector standard system and the volunteer structures that are
18 in place.

19 Thirdly, U.S. standards systems mirrors the unique
20 United States cultural commitment to free enterprise. The
21 market dictates the extent of participation by companies,
22 small and large, in standards work. This results, we
23 believe, in an optimum utilization and allocation of
24 resources.

25 It would be a serious mistake in our view to alter

1 the basic character and nature of the system used so
2 successfully for so many years in the United States,
3 especially at a time when the Federal Government is trying
4 to reduce its budget by encouraging private initiatives.

5 Government control involves more time, more cost
6 and often produces a less effective and less responsive
7 product. I would remind the participants here today of the
8 mobile home standard, the Mobile Home Construction Safety
9 Standard which was formerly the ANSI NFPA Standard 501(b)
10 which was taken over by HUD, Housing and Urban Development,
11 nearly 15 years ago.

12 It has been virtually frozen in the state-of-the-
13 art of 15 years ago without any real change allowed.

14 Pursuant to OMB Circular A-119, agencies of the
15 executive branch are required to defer to the private sector
16 for the development of consensus standards as much as
17 possible. Numerous government agencies use these standards.

18 The proposed Standards Council of the United
19 States or SCUSA would impose government regulation of the
20 voluntary standards system in the United States. While
21 SCUSA would presumably not have authority to make
22 substantive changes in standards, it would accredit
23 standards developers.

24 The impact would be major. As Professor Robert
25 Dixon points out in his classic treatise, Standards

1 Development in the Private Sector, Thoughts on Interest
2 Representative, and I quote him and I would submit this for
3 the record, Mr. Chairman, "the line between procedure and
4 substance is not nearly so bright and perhaps not as
5 different in influence on outcomes as many assume. Former
6 Senator Wayne Morris is said to have proclaimed in his law
7 teaching days that with authority over procedure, he could
8 arrange substance."

9 In our written testimony, and we have extra copies
10 of that through our Washington representative, Jack Gerard
11 who is here today, we have provided your panel with an
12 extensive discussion of legal considerations of private
13 sector standards development which has been put forth and
14 prepared by NFPA's general counsel, Dan Piliero.

15 We would like to supplement our written testimony
16 previously submitted with an NFPA position paper which this
17 position paper specifically addresses the legal issues as
18 they relate to Section 413 of the Trade Act of 1979. We
19 will leave that with the panel and submit it for the record.

20 Now, our position, as you can see, is the current
21 NIST proposal would add an additional layer of regulation
22 that would go much further by adding the requirement of
23 accreditation. That proposal would fundamentally change the
24 role of the U.S. Government in the standards development
25 area.

1 What is now voluntary and private would be co-
2 opted into the governmental, or with accreditation,
3 necessarily comes government standards by which that
4 accreditation is to occur.

5 In short, those who regulate through accreditation
6 have the power to control.

7 There have been numerous prior proposals from the
8 Department of Commerce, the Office of Management Budget and
9 the Federal Trade Commission which are highlighted in these
10 documents for the record.

11 Each of these concluded that the private sector
12 standards-making organizations should be strengthened but
13 should not be taken over and supervised by the Federal
14 Government.

15 It is obvious that the U.S. system of
16 international standards, and I would like to talk about
17 international for just a moment, that system of
18 international standards representation is different from the
19 system used by many other nations.

20 To the extent that international standards are
21 perceived to have an important and meaningful impact on a
22 particular industry or interest group, participation in
23 international standards development will receive active
24 support financially and otherwise.

25 This has certainly been our experience at NFPA.

1 Those interested parties who participate in international
2 standards development process bear the expense associated
3 with that activity. This is what is known as the free
4 enterprise system at its best.

5 We would look at any direct funding by the Federal
6 Government of international standards activity with great
7 caution because with direct funding comes strings attached
8 and the vagaries of federal budget cycles.

9 It should be clear by now that the historic and
10 current view is that the U.S. Government does not and should
11 not be the sole representative of the standards-making
12 system in this country.

13 Our government has a clear, active role to play in
14 U.S. participation in European developments. That role is
15 as a partner with the private sector standards-making
16 system, not its overseer.

17 As to government funding, it is our view that the
18 users of standards should bear the cost of their
19 development. To that extent, the government should pay its
20 fair share of the cost of developing those standards which
21 it uses.

22 This, we believe, is the sole funding issue. As
23 one of the greatest users, the government is probably the
24 single largest beneficiary of the voluntary consensus
25 standards system and therefore should be one of the systems

1 largest supporters, not with grants, gifts or contracts, but
2 with appropriate recompense for benefit received.

3 In conclusion, and I would like to conclude by
4 saying the private sector standards-making system in the
5 United States is functioning in parallel with our nation's
6 free market system. As long as the standards promulgated by
7 the various standards-making organizations are state-of-the-
8 art, provide a forum for differing views, are open to all
9 affected interests and provide due process through consensus
10 and balance, then private sector interest will be motivated
11 to participate even when their individuals views are not
12 necessarily carried forth as consensus in the standards.

13 Thank you, Mr. Chairman and the panelists for the
14 opportunity to express our views today and we would be
15 pleased to answer any questions or submit additional
16 documents for the record.

17 CHAIRMAN WARSHAW: Thank you, Mr. O'Neill. If you
18 would leave those with us, we will put them in the record as
19 you wish.

20 Are there any questions from the panel? Mr.
21 Donaldson.

22 MR. DONALDSON: Mr. O'Neill, in your reference to
23 the agreement or the arrangement between NEPA and CSA,
24 working on making the standards compatible, is there any
25 government involvement on either side in that? Or is that

1 strictly through private sector organizations involved in
2 that process?

3 MR. O'NEILL: It is strictly two private sector
4 organizations. Our Board of Directors directed that we
5 establish a liaison with the Canadian Standards Association
6 which we did. We have set up a steering group on both sides
7 of the border. They will be meeting for the first time in
8 April and they have identified some six or eight areas which
9 we believe and they believe can be harmonized between those
10 two standards. That process is going forward.

11 MR. DONALDSON: And there is no government
12 involvement on the CSA site other. Do you have to report to
13 the SEC?

14 MR. O'NEILL: Other than those officials who might
15 participate on that standards review group, they have -- and
16 I am not certain but I will check that on the records to see
17 if there are any Canadian government officials on that
18 review group -- but in terms of and as far as my
19 recollection is, the answer would be no. I do not believe
20 that there is any Canadian government officials on that
21 steering group.

22 MR. DONALDSON: Okay, thank you.

23 CHAIRMAN WARSHAW: Mr. Ludolph.

24 MR. LUDOLPH: Mr. O'Neill, I am familiar with your
25 program. I had the good fortune to share in one of your

1 long-range planning meetings. I know that you were at a
2 very early instance beginning to look at the 1992 program,
3 and certainly I know that you have world interests in the
4 same way.

5 I was wondering, in that light in the past two
6 years, have you had interest on the part of your membership
7 or on the part of your Board in developing compatible codes,
8 electrical codes with the European codes that are being
9 developed in the electrical area.

10 MR. O'NEILL: First of all, let me address the
11 earlier question or point. Yes, our Board of Directors
12 long-range planning committee has established this as a
13 priority, the EC 92 and world events. You were good enough
14 to come down and brief us on your program at the Department
15 of Commerce and that was much appreciated.

16 It remains a high visibility item within the long-
17 range planning committee.

18 As to the specific question in terms of electrical
19 correlation across the Atlantic Ocean, no, that has not
20 started yet. There has been no real push within NFPA to do
21 that.

22 I think one has to recognize that there is some
23 major, major changes in the infrastructure of electric power
24 distribution within Europe as compared to the United States,
25 but I would foresee and I would guess that there will be an

1 opportunity to proceed on that line of cooperation in the
2 future.

3 I can't predict when, but to answer your question,
4 there has been no real pressure at this end to do that.

5 MR. LUDOLPH: Is the lack of pressure so far from
6 a perception that the contacts in developing codes or
7 standards in the international standardization area
8 sufficient?

9 MR. O'NEILL: Yes, I think we are very comfortable
10 with the IEC and the U.S. National Committee representation
11 and what is being achieved there under the chairmanship or
12 presidency of Ron Reimer who will be talking to you this
13 afternoon, and many of the same folks who participate in the
14 development of the National Electric Code and there are
15 what, some 250 that participate in this and also, Mr.
16 Ludolph, are heavily involved in that IEC process.

17 MR. LUDOLPH: Just to switch gears slightly, on
18 another matter, do you see among your manufacturers or
19 participants and certainly the fire code inspectors, a
20 movement within the United States driven by the marketplace
21 or private sector forces to more uniformity among inspection
22 entities across the United States in the electrical or fire
23 code area?

24 MR. O'NEILL: In terms of electrical inspection,
25 there is a high level of uniformity throughout the United

1 States because you have a National Electrical Code which is
2 adopted in over 40 states within the United States.

3 With the infrastructure of our staff, the
4 electrical inspector staff, the National Electrical
5 Manufacturers' support, the IBEW, all of the NECA, National
6 Electrical Contractors Association, ABC, I could go on and
7 on and on, who gather together around the code to make sure
8 that it is properly and adequately interpreted and enforced.
9 Does that hit the question?

10 Here in the United States, anyway, that's the way
11 it's done. Same way by the way in Canada with the Canadian
12 electrical code as we understand it.

13 MR. LUDOLPH: And I also understand there is a
14 fire code in building construction, is that true?

15 MR. O'NEILL: Okay, let's talk about that. The
16 NFPA produces what is known as a set of National Fire Codes
17 which are both code required for installation of various
18 types of equipment such as electrical or flammable liquids,
19 gases, that type of thing.

20 But we also have a whole cadre of what I would
21 call installation standards that tell you how to protect our
22 built environment. An example would be the automatic
23 sprinkler standard which is the most widely used sprinkler
24 standard in the world. There are fire extinguisher
25 standards, that type of thing.

1 The model building codes which are represented
2 here today and which will be testifying later on, adopt
3 these NFPA standards and some up to 90 or 100 standards as
4 the requirements for that model code.

5 So then when the model code is adopted by a state
6 or a local government, the reference standards go along with
7 that. That is true of ASTM standards and numerous other
8 standards that go towards building an infrastructure to make
9 the environment and the places where we live safer.

10 CHAIRMAN WARSHAW: Okay, thank you very much, Mr.
11 O'Neill, we appreciate it.

12 MR. O'NEILL: As you can see, I would be more than
13 happy to go on and on.

14 (Laughter.)

15 CHAIRMAN WARSHAW: Well, we know you have
16 voluminous material and we would be happy from now to June
17 5th to receive any additional information or thoughts you
18 have as well.

19 MR. O'NEILL: Thank you, Mr. Chairman, again.

20 CHAIRMAN WARSHAW: Mr. Miller, would you care to
21 introduce the members of the Association for Advancement of
22 Medical Instrumentation that you have with you.

23 MR. MILLER: Yes. My name is Michael J. Miller
24 and I am Executive Director of the Association for the
25 Advancement of Medical Instrumentation, or AAMI, as it is

1 called.

2 Accompanying me today are AAMI President Dennis R.
3 Stupak, president of The Stupak Network; Robert Flink, co-
4 chairman of the AAMI Standards Board and Director of
5 International Regulatory Affairs at Medtronic, Inc.; and
6 Mort Levin, chairman of the AAMI International Standards
7 Committee and Quality and Regulatory Affairs consultant at
8 Hewlett-Packard.

9 As I sit here and see the people to my left, I see
10 including myself, about 60 years of standards experience,
11 and as I look to my right, I see another 60. That adds up
12 to about 120 years of standards experience and I think we
13 finally achieved parity with the impression array of experts
14 sitting across the room today.

15 (Laughter.)

16 I hope that we can achieve the same parity as a
17 result of these hearings today.

18 AAMI is a membership association of 5,000 health
19 care professionals employed by manufacturers, health care
20 facilities, academic and research institutions and
21 government agencies that develop, manage, or use medical
22 technology.

23 AAMI develops standards for complex medical
24 devices such as programmable, implantable pacemakers, heart
25 valves, drug infusion devices, and patient monitoring

1 equipment.

2 AAMI's standards are used by U.S. Government
3 agencies, industry and health care facilities for design,
4 procurement, technology assessment and management. Our
5 standards are used or adopted by foreign governments, the
6 United Nations, and such international organizations as IEC
7 and ISO. These standards, as you know, are essential to
8 national and international commerce and trade.

9 We will respond to the issues you have raised in
10 the context of our experience with how government agencies
11 have contributed to AAMI's national and international
12 standards programs.

13 According to recent Department of Commerce
14 estimates, medical devices represent a U.S. trade surplus of
15 \$1.7 billion and this surplus is growing.

16 To ensure that the United States industry
17 maintains its competitive position internationally, the U.S.
18 must, through government and private sector agreement and
19 coordination, communicate its positions on international
20 standards, testing, and certification issues with one voice.

21 The unified voice of the government and private
22 sector has been fundamental to the success of AAMI's
23 national and international standards programs -- a success
24 that benefits industry and the public.

25 AAMI believes that important roles exist for both

1 the public and private sectors in international standards
2 and that the strength of the U.S. system must continue to be
3 based upon a defined and shared responsibility.

4 The private sector will assume responsibility for
5 its role and will bear its portion of the cost. While we
6 feel that government is an essential participant, it should
7 not direct international standards development.

8 The issues related to certification and testing
9 are complex and require further cooperative study and
10 resolution by government and the private sector.

11 Underlying our testimony is the fundamental belief
12 that the management and technical knowledge necessary for
13 effectively directing and coordinating international
14 standards exists inherently within the private sector.

15 Private sector experts who must use standards are
16 in the best position to determine priorities and to select
17 and fund experts.

18 Representation of national interests by
19 knowledgeable U.S. technical experts -- from government and
20 the private sector -- at the working level is essential to
21 the acceptance of U.S. positions in international standards
22 forums.

23 One of the most important shared responsibilities
24 of the government and the American National Standards
25 Institute is helping the private sector gain access to

1 international standards forums and fair opportunities for
2 the expression of U.S. positions on important technical
3 issues.

4 U.S. experts speaking to foreign experts, who have
5 a practical, working knowledge of specific medical devices,
6 is the most effective way to ensure harmonization of U.S.
7 technical positions with those of other countries.

8 In our experience, this kind of interaction has
9 cut through bureaucratic red tape to resolve important
10 technical issues that could have affected U.S. companies
11 adversely if not resolved.

12 Quite frankly, the red tape that the experts have had
13 to cut through has often been created by SCUSA-type
14 organizations that accredit representatives who do not have
15 a practical knowledge of medical devices. We feel that the
16 government and the private sector must coordinate and
17 cooperate in the selection of these types of experts.

18 The American National Standards Institute, of
19 which AAMI is a member, has proved to be an important link
20 between the many industries and voluntary organizations that
21 are involved in national and international standards.

22 ANSI plays an important coordination role and has
23 assisted our efforts to gain U.S. representation in
24 international standards activities. I might mention that
25 AAMI's standards program is accredited by ANSI.

1 To date, we have no evidence that the existing
2 system presents an obstacle to our gaining adequate
3 representation in international standards activities.

4 Certainly, funding from the government or other
5 sources would assist AAMI's efforts, but we see other areas
6 where government assistance would be more useful.

7 To ensure U.S. success, it is important that the
8 federal government lend its considerable influence and
9 political support to private sector efforts such as AAMI's.

10 A role that only government can fulfill is to
11 integrate support of voluntary international standards
12 efforts into its formal trade policies. The government
13 should help ANSI protect U.S. interests by ensuring that
14 international standards and the process for their
15 development are not used as trade barriers.

16 Additionally, we encourage the administration to
17 facilitate the support and participation we have received
18 from the FDA's Center for Devices and Radiological Health
19 and other agencies such as the National Institutes of
20 Health. FDA and NIH's participation and influence has been
21 fundamental to our international standards work.

22 We are convinced that the proposal for a Standards
23 Council is an unnecessary and inappropriate response to
24 complex issues. Strong government intervention would
25 ultimately create an additional and unnecessary level of

1 administration and control that would only produce
2 restrictions, delay, and additional expense to the public
3 and the American industry.

4 We seriously question whether SCUSA or any
5 government agency can direct U.S. participation in
6 international standards as effectively as the private sector
7 can.

8 As an alternative to the SCUSA proposal, ANSI and
9 the government should develop a working relationship that
10 will ensure an effective and coordinated role for the U.S.
11 in international standards setting, testing and
12 certification.

13 It is essential that this relationship continue to
14 provide the means for government agencies to endorse,
15 support and provide experts to assist our efforts. FDA and
16 NIH committee chairmen, for example, lend valuable
17 credibility to AAMI's international standards efforts.

18 The comprehensive inventory of medical device
19 standards developed by AAMI in the 70's and 80's is the
20 essential foundation upon which the AAMI international
21 standards program was built. The government was a catalyst
22 and an essential partner to the effort that produced these
23 standards.

24 As we outline in more detail in our submitted
25 statement, these precedent-setting experiences convince us

1 that government and the private sector can coordinate their
2 roles in international standards activities without
3 additional government controls.

4 We emphasize that although the FDA had the
5 authority, under the Medical Device Amendments of 1976, to
6 become, in effect a powerful SCUSA, the FDA chose instead to
7 rely on the private sector -- although it was, at all times
8 an active, essential and contributing participant.

9 The FDA has contributed leadership, experts, and
10 financial resources to expedite high priority standards work
11 as a response to its 1976 mandate. Most important, FDA
12 communicated to the industry the importance of good
13 voluntary standards and the need for rapid deployment of
14 resources to meet a congressional mandate.

15 Similarly, government can provide its leadership,
16 experts, financial resources, and credibility to educate
17 industry about the strategic importance of international
18 standards and to help secure industry support and
19 participation.

20 The kind of teamwork that AAMI is advocating
21 between government and the private sector has already
22 produced an effective program for advancing the U.S.
23 industry's position on EC and international standards.

24 Working closely with ANSI, government, and HIMA,
25 AAMI has assumed leadership positions in strategic areas of

1 standards development in ISO and IEC.

2 These leadership positions will expedite the
3 development of standards needed by the EC, which will help
4 persuade CEN and CENELEC to defer to IEC and ISO standards.
5 CEN and CENELEC have confirmed that their policy is to defer
6 to ISO and IEC standards when possible.

7 In short, AAMI proposes to help expedite ISO and
8 IEC work to help ensure that important EC standards will be
9 developed in ISO and IEC where the U.S. has defined rights
10 of participation. To date, this strategy has been
11 successful.

12 As anticipated, ANSI and AAMI have assumed
13 responsibility for national and international standards
14 secretariats for ISO and IEC committees, subcommittees,
15 working groups and U.S. advisory bodies in strategic areas.

16 I will provide examples of the practical results
17 of our cooperative efforts.

18 AAMI/ANSI will soon be designated secretariat of a
19 new and highly influential ISO Technical Committee on
20 medical device sterilization, a technology fundamental to
21 medical device development and use.

22 It is our objective that this technical committee
23 develop international standards that will be used by all
24 countries of the world. We are holding meetings with CEN
25 leaders to discuss coordination of this work in April. An

1 FDA sterilization expert, Virginia Chamberlain, will chair
2 this important technical committee.

3 AAMI has also begun commenting directly to CEN on
4 its standards for medical device sterilizers. We were
5 alerted to the CEN sterilization standards through the ANSI
6 Reporter. ANSI provides direct access to CEN and CENELEC.

7 It is worth noting that the U.S. working group on
8 biological testing and evaluation -- administered by AAMI --
9 developed an important draft standard in less than two
10 months -- an impressive feat to anyone who is familiar with
11 standards setting.

12 The recently formed CEN committee that corresponds
13 to the ISO biocompatibility effort has decided that it will
14 defer to this and other work if expedited. CEN sees this
15 document as a model document and is holding it up to other
16 working groups and committees in this area.

17 The private sector and government have developed
18 and implemented a program that provides industry access to
19 important decision-making processes that will enhance the
20 medical device industry's competitive position in Western
21 Europe and the rest of the world. This program has not
22 required government intervention of the type envisioned by
23 the SCUSA proposal.

24 Our ability to serve the U.S. industry can,
25 however, be bolstered by additional support from the

1 government and an effective and cooperative relationship
2 between ANSI and government.

3 The relationship between private sector
4 organizations and government agencies will determine how
5 effectively the United States industry is represented in
6 international standards and world trade. Because this
7 relationship will have significant impact on the public
8 interest and welfare, it requires careful thought and
9 definition.

10 Our experience in working with government agencies
11 on domestic and international standards convinces us that
12 government and the private sector can forge a partnership
13 that will greatly enhance the efforts of voluntary standards
14 bodies such as AAMI and advance the competitive position of
15 United States industry.

16 In conclusion, we offer our experts and experience
17 in defining this relationship. We would welcome the
18 opportunity to be part of the process of resolving these
19 important issues.

20 Thank you for the opportunity to present our
21 views.

22 CHAIRMAN WARSHAW: Thank you, Mr. Miller. Are
23 there any questions from the panel? Mr. White.

24 MR. WHITE: Mr. Miller, I have questions in two
25 different areas.

1 The first has to do with your statement which
2 alluded to obstacles at times to the development of
3 international standards. I got the impression that there
4 are certain kinds of obstacles that exist that makes it
5 difficult at times to get involved and actually participate
6 in international standards.

7 Did I hear you right, or could you elaborate a
8 little on that?

9 MR. MILLER: Well, I think the reference that you
10 heard was in the context of times we find that monolithic
11 standards organizations around the world appoint experts
12 that aren't practically knowledgeable about medical devices.

13 We find this an impediment to moving standards
14 forward in ISO and IEC. I should have made it clear, if I
15 didn't, that the types of obstacles that I was talking about
16 are more in the international arenas than certainly in the
17 United States.

18 MR. WHITE: In terms of the government, and I
19 guess I want to follow through a little on that, in terms of
20 the role of ANSI and AAMI and the government and the private
21 sector, could you give us some suggestions to what we in the
22 United States should do besides funding, obviously, to
23 improve our participation in international standards?

24 You mentioned a cooperative approach, but I was
25 wondering if you could amplify that a little because there

1 are a lot of issues involved, not only standards development
2 but testing and certification issues.

3 MR. MILLER: I am not sure that AAMI's experience
4 is really in the testing and certification area so I would
5 defer to other people on that, but I think in our
6 experience, what we have gained from government has been
7 very useful, and that is in effect an endorsement of our
8 activities in the international arena.

9 At all times, at international meetings, there are
10 at least one and sometimes as many as four FDA experts
11 participating in activities where AAMI is a U.S.
12 secretariat. That not only provides experts to help with
13 the work, that also lends credibility to the effort that is
14 invaluable. That's also true of people from NIH.

15 With that type of support and credibility and
16 experts, we have found that we have been able to do the job
17 we need to do for the industry in our international efforts.
18 If somehow the government can develop a policy to a similar
19 effect in other areas, we would hope that other industries
20 would share the benefits and reap the benefits of government
21 involvement that we have.

22 MR. WHITE: Do you think the medical device
23 industry is adequately supporting the development of
24 international standards?

25 MR. MILLER: I think that that transition is

1 occurring very well. I think that this is an area where
2 both the government and the private sector can work
3 together. I know in your role as chairman of the medical
4 device standards board of ANSI this is one of our missions,
5 to get the word out that there are important priorities
6 here.

7 I think that that educational message is being,
8 the word is being sent out, but I think that we need to work
9 harder to get it out. We've received more than we expected
10 in some respects from the industry in terms of experts and
11 participation and financial support.

12 We contemplate that during the next two years, as
13 we continue to get the word out about these activities and
14 their importance, that we will gain additional support, but
15 once again, I think that efforts such as yours as chairman
16 of the MDSB and the MDSB and ANSI's effort to get the word
17 out is very important.

18 CHAIRMAN WARSHAW: Thank you very much, Mr.
19 Miller.

20 MR. MILLER: Thank you.

21 CHAIRMAN WARSHAW: We very much appreciate the
22 contributions of both NFPA and AAMI today and please, if you
23 have anything additional that you would like to submit, we
24 would appreciate receiving it.

25 Thank you.

1 MR. O'NEILL: Thank you, Mr. Chairman.

2 CHAIRMAN WARSHAW: Now I would like to ask the
3 Council of American Building Officials and the American
4 Plywood Association if they would join us here.

5 (Pause.)

6 Good afternoon, gentlemen. Thank you. James Bihr
7 is leading off for CABO. If you could introduce ---

8 MR. BIHR: Mr. Kuchnicki will.

9 CHAIRMAN WARSHAW: Okay, Mr. Kuchnicki.

10 MR. KUCHNICKI: Good afternoon. My name is Dick
11 Kuchnicki. I am the president of the Council of American
12 Building Officials. We appreciate the opportunity to
13 testify at this public hearing and first of all, I would
14 like to start out by saying that CABO is the umbrella
15 organization for the three model code organizations that
16 were alluded to this morning -- Building Officials and Code
17 Administrators International, the publishers of the National
18 Building Code, the International Conference of Building
19 Officials which is the publisher of the Uniform Building
20 Code, and the Southern Building Code Congress International
21 which is the publisher of the Standard Building Code.

22 It was alluded to this morning that the fact that
23 there are three model codes rather than one leads to a
24 disjointed effort. I think it is not totally true because
25 since 1972 when CABO was formed, one of the major objectives

1 was to work towards a uniform code requirements and that is
2 one of the basic philosophies behind CABO, however, in view
3 of the fact that these are three independent organizations
4 that have their own membership, own bylaws, we felt rather
5 than testifying as CABO at this hearing, that it is
6 important to hear from each of the three individual
7 organizations.

8 We have present here today Mr. James Bihr who is
9 the President of the International Conference of Building
10 Officials; Mr. Paul Heilstedt who is the Executive Director
11 of BOCA and Mr. Bill Tangye who is the chief executive
12 officer of the Southern Building Code Congress
13 International.

14 So we are going to do this a little different than
15 the other groups. We are going to go through each
16 individual, starting down at the end with Mr. Bihr.

17 MR. BIHR: If I may, Mr. Chairman. Thank you for
18 the opportunity to speak to you today. We would certainly
19 like to made our codes and standards available as a matter
20 of the record also, and probably extend those at membership
21 rates if you are interested.

22 (Laughter.)

23 MR. BIHR: ICBO was founded in 1922 for the
24 express purpose of developing a uniform building code, and
25 in 1927 such a code was introduced and has been re-

1 introduced every three years since that time.

2 It has been adopted widely throughout the United
3 States. It is a code produced largely by donated efforts
4 and the codes are adopted by a voluntary act by local,
5 regional, state, and federal agencies, both throughout the
6 United States as well as in foreign countries.

7 Recent studies indicate that over 95 percent of
8 the local communities in the United States use a model code,
9 generally by adoption by reference and with minimal
10 amendments.

11 Our organization provides a wide variety of
12 ancillary services in connection with the code development.
13 This involves education and training, certification of
14 inspectors, and evaluation of building products and systems.

15 With respect to product evaluation, we accomplish
16 this through a subsidiary corporation, ICBO Evaluation
17 Services, Incorporated. The reason for the subsidiary is
18 the liability issues that attend the approval of products
19 and systems. That is something you could very well help us
20 in.

21 We adopt through our model codes and implement the
22 standards produced by many other volunteer associations in
23 the United States, all of whom have talked here -- well, I
24 don't know if all of them have talked yet, but ASTM, ANSI,
25 NFPA and I think to speak later, UL, and many others.

1 Thus, when a model code is adopted into law as a
2 regulatory document, these national standards become part of
3 the law. It is a system which is a unique one when compared
4 to other countries, but it is highly successful and
5 relatively free of the layered bureaucracies that you find
6 in these other countries.

7 We do support a U.S. policy designed to improve
8 the acceptance of U.S. technology on an international scale.
9 Our codes presently serve such purpose by adoption or use in
10 other countries, and particularly in more recent years, as
11 guidelines in developing nations.

12 We support the policy statement that is embodied
13 in OMB circular A-119 with respect to the Federal Government
14 role and we particularly applaud the recent efforts of the
15 federal agencies such as the Department of Defense and their
16 commitment to utilize model codes and the national voluntary
17 standards.

18 Our organization members are not in a position
19 financially to participate actively in the international
20 standards organization. There are substantial costs
21 involved that we simply are unable to finance ourselves.

22 This is unfortunate because standards very often
23 have a regulatory basis and the objective sometimes becomes
24 obscure by the activities of those that are unfamiliar with
25 the regulatory intent, but we do support and monitor the

1 efforts of organizations such as ANSI, ASTM and UL and the
2 various members of the U.S. industry.

3 We assume that U.S. industrial firms that are
4 multi-national in scope have been active in the formulation
5 of ISO standards and we presume they are active in recent
6 formulation of CEN/CENELEC standards.

7 At the recent ANSI public conference on
8 standardization of the 90's, we were advised by a European
9 spokesman that U.S. industry can submit products for use in
10 European economic community by showing conformance to
11 CEN/CENELEC standards and procedures.

12 In our evaluation practice, European products can
13 be judged on the basis of the standards adopted in the
14 country of origin, if these standards and their quality
15 control system are comparable in performance to the
16 standards that we have adopted.

17 In our view, the current posture of CEN/CENELEC
18 does not result in a level playing field. We believe a
19 broader European perspective is needed to be consistent with
20 the objectives of GATT.

21 We do not favor the establishment of a Standards
22 Council of the United States along the lines outlined in the
23 December 20, 1989 communication from Dr. Warshaw, however we
24 agree with some of the objectives in terms of national
25 orientation and commitment.

1 In our view, the U.S. voluntary system works very
2 well. The approach that we would favor would be the
3 emergence of a truly level playing field with product and
4 systems produced to U.S. standards judged on the integrity
5 of our entire system and processes as opposed to procedure
6 where they would have to be re-appraised.

7 This approach may be augmented by providing
8 adequate financial resources so that U.S. voluntary codes
9 and standards groups could meet and confer with their
10 international counterparts to develop the confidence needed
11 for the credibility of our respective efforts.

12 The Federal Government strategy should be to
13 support the current voluntary system extant in the United
14 States in their dialogue with other countries.

15 I appreciate this opportunity to address you.

16 CHAIRMAN WARSHAW: Excuse me. I might point out
17 that you have used about seven of your ten minutes.

18 MR. TANGYE: I'll be very quick. My name is Bill
19 Tangye and I am the Chief Executive Officer of the Southern
20 Building Code Congress.

21 Let me open by clearly and emphatically stating
22 that the Southern Building Code Congress International
23 supports the existing American voluntary standards system
24 and ANSI in its role as coordinator.

25 The most visible measures of our support are

1 membership in ANSI, active participation on ANSI committees,
2 and the unamended adopting by reference of more than 150
3 ANSI standards in our standard code.

4 In view of the fact that the standard codes are
5 adopted and enforced by more than 2500 local jurisdictions
6 in 17 Southwestern, Southern, Southeastern and Atlantic
7 Seaboard states, our use of these ANSI standards has had and
8 is having a very positive impact on the construction
9 industry and companies that participate in it.

10 This is even more important when you consider that
11 our geographical area of influence has been and continues to
12 be the most rapidly expanding area in both population growth
13 and industrial dollar development in this country.

14 While we are a regional code and standards setting
15 organization, we recognize the importance of international
16 standards and their impact on U.S. industry. This country
17 has benefited from the ANSI process for some 70-plus years.

18 Our system of private sector development of codes
19 and standards has placed American companies in international
20 leadership roles in virtually every industry.

21 While we agree with many of the issues raised by
22 the Department of Commerce, we believe the existing ANSI
23 system can be revised to effectively respond to these
24 issues.

25 In our view, there has been no evidence submitted

1 that justifies the creation of another body be it a
2 Standards Council of the United States of America or other
3 body to oversee the development of codes and standards in
4 this country.

5 In our view, the most important statement the
6 Federal Government can make to our international friends and
7 competitors is one, to actively participate in the ANSI and
8 other private sector voluntary standards processes, number
9 two to adopt the resulting standards.

10 Such a straightforward implementation of OMB
11 policy 119 will provide the very basis of the important and
12 necessary public/private sector partnership mentioned by
13 many of today's speakers.

14 The solution is perhaps best stated in Mr.
15 Peraltas' November 15, 1989 letter to Dr. Duesterberg
16 wherein he said "if the system has warts, we should of
17 course address these."

18 It seems to us in the Southern Building Code
19 Congress that removing the warts rather than amputating the
20 finger is the more appropriate remedy.

21 We appreciate the opportunity to speak to this
22 body today.

23 CHAIRMAN WARSHAW: Thank you.

24 MR. HEILSTEDT: My guess is there is about a
25 minute left.

1 CHAIRMAN WARSHAW: Just about.

2 MR. HEILSTEDT: Just a couple of points that I
3 would like to agree with the two previous speakers. BOCA
4 promulgates a complete package of model codes and regulates
5 a complete built environment -- building, mechanical,
6 plumbing, fire prevention and the like.

7 BOCA makes wide use of national standards. We
8 reference 600 standards promulgated by 62 organizations
9 throughout the United States. You can see a healthy, strong
10 standards environment is what we need in the code
11 enforcement arena.

12 The local governments, the state and local
13 governments who form our largest membership -- 11,000
14 members -- are those who are the active, on-the-firing line
15 as far as code enforcement is concerned.

16 I will close with that. Thank you.

17 CHAIRMAN WARSHAW: Well, thank you. Again, I want
18 to emphasize that the record is open until June 5th.

19 MR. KUCHNICKI: Also, just for the record, we will
20 also submit copies of all of the model codes series of each
21 of the member organizations, as CABO and previous speakers
22 stated they would submit their documentation.

23 CHAIRMAN WARSHAW: We can't have copyrighted
24 material, obviously.

25 But we would like copies of your statement. That

1 would be useful for the record.

2 MR. KUCHNICKI: You will get a written statement.

3 CHAIRMAN WARSHAW: And we would like to put the
4 statements in the record, and any additional thoughts you
5 come up with in the interim too.

6 Are there any questions of the panel? Mr.
7 Ludolph.

8 MR. LUDOLPH: Mr. Bihr, I was interested in your
9 comments that as it stands now, you have provisions to
10 accept standards in the United States of manufactured
11 products, standards prepared overseas that are deemed
12 comparable or acceptable under some system.

13 Could you give me a little bit of an idea of how
14 that decision is made as to how a standard is deemed
15 comparable and equivalent and acceptable into a code? How
16 it would work its way into the local mandatory building
17 code, and what kind of marks or accreditation that accompany
18 that?

19 MR. BIHR: Well, as you might expect, products
20 that are manufactured in other countries that meet a code
21 objective are generally under a standard which is very
22 similar to the standards that we customarily use.

23 So it has been our practice to evaluate the test
24 standard of the country of origin and to see if it has the
25 same objectives and similar results as the standards that we

1 require.

2 If it does, we do not require a re-test of the
3 product specifically under our test standards. We are able
4 to evaluate the standard on its own.

5 Also we utilize the quality assurance programs
6 that are active in the country of origin, if they meet our
7 objectives.

8 CHAIRMAN WARSHAW: Okay, thank you, Mr. Bihr. Mr.
9 Donaldson.

10 MR. DONALDSON: Mr. Bihr, you mentioned I believe
11 Evaluation Services, Inc., if I caught the name correctly.

12 MR. BIHR: That's correct.

13 MR. DONALDSON: Could you elaborate on what
14 services are performed?

15 MR. BIHR: The evaluation of building products and
16 systems, the listing of testing agencies and the listing of
17 quality control agencies, and the approval of fabricating
18 plants.

19 MR. DONALDSON: And for whom are these
20 evaluations, to whom are they provided?

21 MR. BIHR: They are directed to our members for
22 their utilization.

23 CHAIRMAN WARSHAW: Well, we thank you again and
24 encourage you, in view of the short time, to submit any
25 additional comments beyond those presented today.

1 The American Plywood Association, Mr. Flint.

2 MR. FLINT: My name is Tom Flint. I am vice
3 president and director of Technical Services Division of the
4 American Plywood Association. The APA is a national trade
5 association representing more than 50 domestic companies
6 that annually account for approximately 80 percent of the
7 softwood plywood and non-veneer structural panels produced
8 in the United States.

9 Collectively, those member companies operate 199
10 manufacturing plants located in the west, south, northeast
11 and the north central states.

12 Voluntary standards and product certification
13 together have played a major role in the growth and
14 development of the U.S. structural panel industry. The APA
15 and its predecessor organization, the Douglas Fir Plywood
16 Association, has been an active participant in the voluntary
17 standards system for nearly 60 years.

18 Over the last 50 years, the industry has
19 experienced an annual compounded growth rate of nearly seven
20 percent. Standards and certification have been the
21 cornerstone of that growth.

22 Our initial involvement with standards began in
23 1933 with the fledgling Voluntary Commercial Standards
24 Program of the Department of Commerce. The first plywood
25 commercial standard was promulgated in 1933 and we have

1 maintained that standard to this day and the relationship it
2 created with the National Institute of Standards and
3 Technology.

4 Needless to say, we have found that the Department
5 of Commerce/NIST standards activity has been helpful to our
6 industry, free of government domination and consistent with
7 our notion of voluntary standards and the free enterprise
8 system.

9 Throughout those years we have also been active in
10 various ASTM committees and have been intimately involved in
11 the development of several ASTM test method standards. APA
12 is an organizational member of ANSI and participates in
13 their committees that impact structural use panel uses.

14 As part of our activity, APA operates a testing
15 laboratory for structural research as well as laboratories
16 for product quality testing. We can be characterized as a
17 certification agency as well as a standards development
18 organization.

19 In the early 1970's we became concerned by a
20 proposed OSHA rule for the accreditation of testing
21 laboratories involved in safety testing for OSHA standards.
22 Structural panel products are used in many applications
23 where worker safety is involved.

24 Our concern with the OSHA proposal was that it
25 discriminated against companies and association testing

1 laboratories that might be involved in safety testing. They
2 did this by a prescriptive definition in their rule that
3 excluded a relationship between the laboratory and the
4 product manufacturer.

5 No national vehicle existed at that time to assess
6 and accredit laboratories that could demonstrate their
7 competence and integrity to do safety testing. OSHA was
8 hanging its hat on a separate in organizational ties between
9 the product manufacturer and the testing laboratory. They
10 were insisting on complete organizational independence.

11 We felt strongly the emphasis should be on
12 demonstrated competence and ability to perform regardless of
13 organizational ties. Consequently, we became a vocal
14 advocate of the National Voluntary Laboratory Accreditation
15 Program, NVLAP, that was in the early stages of development
16 by the then Bureau of standards with the input of ASTM and
17 others in the laboratory community.

18 NVLAP is now well-established and well-recognized
19 as a vehicle through which a competent and qualified
20 laboratory can be identified, both nationally and
21 internationally.

22 Certainly NVLAP can be considered a viable part of
23 the U.S. voluntary standards system, inspite of arguments
24 some might wish to advocate or attribute to government.

25 APA has also been active in international market

1 development for more than 25 years. During that time, we
2 have come face to face with numerous non-tariff standards
3 and product certification barriers. We have also been
4 involved in ISO activities related to structural panel
5 products during that period of time, and are currently the
6 ANSI TAG administrator of ISO Committee TC 89 and we fund
7 ANSI participation status on the TC 89 committee.

8 At times that we have participated in the ISO
9 committees, we have funded those on our own.

10 Most recently we have been deeply involved in many
11 of the negotiations the Department of Commerce and the U.S.
12 Trade Representatives Office have had with Canada on the
13 Canadian Free Trade Agreement, and with Japan in connection
14 with the Structural Impediments Initiative and Super 301
15 activity of the 1989 Trade Act.

16 Our involvement with government in these most
17 recent instances has given us an appreciation for how
18 important it is to have an industry/government working
19 relation in dealing with trade issues and other governments.

20 Plywood is the only commodity not scheduled for
21 tariff reduction to zero with Canada until after the non-
22 tariff standards issues have been resolved. There is no
23 question in my mind that the partnership and support of
24 government in these instances was a key to what was
25 accomplished.

1 Particularly in dealing with the Japanese
2 bureaucrats, it is vitally important to have a strong
3 industry/government working relationship.

4 Currently we are involved, along with three other
5 organizations, in efforts to secure recognition as an
6 accredited certification organization in Canada. This has
7 been handicapped and certainly delayed by the fact that the
8 United States has no national counterpart certification
9 accreditation system to that administered by the Standards
10 Council of Canada.

11 While we have not yet faced problems in Europe, we
12 anticipate they will be encountered as EC 92 unfolds. If
13 so, it could be extremely helpful in our view if a U.S.
14 national system for accrediting certification systems were
15 created that functioned in a manner similar to the NIST
16 NVLAP program.

17 Such an effort by all means should make full use
18 of the voluntary standards systems now in place and not
19 supplant existing organizations. Coupled with accreditation
20 certification, of course, should be activities of government
21 to secure reciprocal recognition of accredited U.S.
22 organizations by other countries, as you have done in the
23 laboratory field.

24 These are not activities currently being filled by
25 any U.S. organization, at least in a generic sense, yet we

1 see them as critical in the years ahead.

2 In dealing with foreign countries in trade
3 matters, it has been our experience that the support of
4 government can be critically important and effective if done
5 cooperatively with industry and consumer interests.

6 To that end, government's involvement in standards
7 and certification activities needs to be done in a forum of
8 equal participation by all affected interests so that true
9 national consensus can be achieved.

10 CHAIRMAN WARSHAW: Thank you, Mr. Flint. Is there
11 any question for Mr. Flint?

12 Well, we thank you very much for your constructive
13 statements and I now would like to call the next two
14 panelists, the American Society of Heating, Refrigerating
15 and Air Conditioning, ASHRAE, and the American Institute of
16 Aeronautics and Astronautics.

17 (Pause.)

18 CHAIRMAN WARSHAW: Good afternoon, gentlemen. I
19 appreciate your being here. We have Mr. Grumman.

20 MR. GRUMMAN: Yes.

21 CHAIRMAN WARSHAW: Of ASHRAE.

22 MR. GRUMMAN: Yes.

23 CHAIRMAN WARSHAW: If you would introduce your
24 associates and continue from there.

25 MR. GRUMMAN: Yes. I am David L. Grumman. With

1 me here today are on my left, Frank Coda who is the
2 executive director of ASHRAE and on my right, Jim
3 Heldenbrand, the manager of standards.

4 My name is David L. Grumman. I am a registered
5 professional engineer and I practice as an engineering
6 consultant in Illinois. I am current chairman of the
7 standards committee of the American Society of Heating,
8 Refrigerating and Air-Conditioning Engineers, or ASHRAE, on
9 whose behalf I appear today.

10 ASHRAE welcomes the opportunity to submit comments
11 to the NIST on international standards-related activities.
12 Since ASHRAE is not engaged in testing and certification,
13 our comments will not cover those topics.

14 ASHRAE is a technical society comprised of 50,000
15 members from 120 nations. It is recognized worldwide for
16 its voluntary consensus standards which help industry and
17 serve the public by offering uniform methods of testing and
18 recommended engineering practice.

19 Since 1978, ASHRAE's procedures for standards has
20 been recognized by ANSI under its accredited organization
21 method.

22 ASHRAE's international standards responsibilities
23 include secretariat for three subcommittees of ISO/TC 86 on
24 refrigeration, and administrator of the U.S. TAG, along with
25 that TAG's seven panels.

1 We will make our presentation in the following
2 format. First, issues of concern to ASHRAE; second,
3 examples of successful public sector/private sector
4 cooperation; and third, comments on the Canadian model of
5 government involvement; and lastly, our key recommendations.

6 The issues of particular concern to ASHRAE are
7 accreditation of standards developers, roles of private and
8 public sectors, and coordination between sectors.

9 The essence of ASHRAE's position on these issues
10 is this: Accreditation, Accreditation of developers of
11 private sector standards should remain a private sector
12 function.

13 Roles, the private sector should continue to write
14 and process standards under private sector coordination.
15 Public sector experts and standards users -- whether
16 federal, state or local government employees -- should be
17 encouraged to participate directly in the committee work of
18 writing and processing consensus standards for which the
19 public sector has an abiding interest.

20 The results of government research should be
21 offered when appropriate as a basis for critically-needed
22 standards where the technology is new or rapidly evolving.

23 Coordination, the interests of public sector
24 standards need to be coordinated in a way that one,
25 identifies and prioritizes proposed standards projects that

1 are critical from the public sector viewpoint.

2 Two, communicates these needs to the private
3 sector coordinator.

4 Three, summons the resources of the public sector
5 such as government researchers to actively work on domestic
6 and international standards development and revision
7 projects and on technical advisory groups, or TAG's.

8 Four, organizes and promotes tax incentives and
9 other methods of public financial support of the private
10 sector standards coordinator.

11 Examples of such needed support include sharing
12 costs of ISO/IEC fees, broadening the membership interest
13 categories on TAG's, and defraying costs of hosting or
14 traveling to TAG and international standards meetings.

15 Now some examples. We think excellent models for
16 private/public sector cooperation are the ASHRAE series of
17 standards in the field of energy efficient design in new
18 buildings, where research carried out principally by the
19 then NBS and ASHRAE over a period of four decades, and by
20 NIST and DOE's national labs over the last 16 years, have
21 resulted in the ASHRAE/IES 90 and 100 series of standards on
22 energy efficient design of new and existing buildings.

23 Further, ASHRAE solar collector test standards and
24 the DOE appliance efficiency test methods and standards have
25 similarly resulted from public/private cooperation.

1 Preparation of ASHRAE Standard 90-75, energy
2 conservation in new building design, was initiated by a
3 private sector association of state officials, NCS/BCS, an
4 organization whose founding in 1967 was assisted by NBS.

5 Reacting to disparate legislative initiatives by
6 states in response to the energy crisis of the early 70's,
7 NCS/BCS asked NBS in 1973 to prepare a building energy
8 conservation standard that could be offered as a model code
9 to the states.

10 NBS produced a research report in the form of a
11 draft standard and recommended that it be turned over to an
12 appropriate standard developer to be processed as a
13 voluntary consensus standard.

14 ASHRAE accepted the task from NCS/BCS in February
15 of 1974 and the standard was prepared and published in
16 record time by July 1975.

17 ASHRAE standards now serve as the basis of energy
18 codes in all 50 states. Since buildings consume
19 approximately 35 percent of the nation's energy expenditure,
20 the role of ASHRAE's voluntary consensus standards is very
21 important in promoting efficient U.S. energy use.

22 ASHRAE participated in the rulemaking process for
23 the government's energy conservation standards for new
24 building, and of late has provided the underlying document,
25 namely ASHRAE/IES Standard 90.1, for the new energy standard

1 for the commercial and multi-family highrise-types of
2 federal buildings.

3 Further, issuance of the Model Energy Code in the
4 70's under CABO provided an important delivery mechanism for
5 adopting a code language version of ASHRAE's energy standard
6 by building regulatory officials.

7 Now some comments on the Canadian model of
8 government involvement in standards.

9 While we may admire potential efficiencies in
10 countries that have mandatory national building codes or
11 standards, we do not wish to trade the freedom of the U.S.
12 national voluntary consensus system for a more rigid one
13 controlled by the public sector.

14 We think that the public sector could and should
15 take better advantage of the opportunities to participate in
16 the national voluntary consensus standards system -- and
17 that this system would be stronger as a result.

18 Domestically, the Departments of Defense and
19 Energy seem more committed to taking advantage of and
20 working to improve the present system than are some other
21 standards-using federal agencies.

22 NIST traditionally has had a large percentage of
23 its research staff constructively participating in standards
24 development activities, and this work should once again
25 receive institutional priority and recognition.

1 The Standards Council of Canada works in a
2 different code environment than prevails in the U.S. The
3 powers there include accreditation of standards-writing and
4 testing and/or certification organizations and determination
5 of which standards are to be mandatory.

6 While such powers here would make discrete federal
7 legislation dealing with fragmented or overlapping state
8 activities unnecessary, we continue to hope with our present
9 system that the states will voluntarily cooperate.

10 We fear that creating such a standards council
11 organization in the U.S. -- and making it subject to the
12 annual federal appropriations process -- would create
13 uncertainty and a perceived, perhaps an actual, loss of
14 control by the private sector.

15 We urge that advocates of change in the present
16 system show evidence that its shortcomings would be improved
17 by such a change.

18 Our key recommendations: ASHRAE suggests that
19 public discussion be focused on the two-center approach. By
20 that we mean that separate but coordinated centers in the
21 private and public sectors, as suggested by the National
22 Standards Policy Advisory Committee in 1979.

23 Plan B, as advocated by the ANSI Blue Ribbon
24 Committee, appears to be based on this approach.

25 ANSI's plans A and B are described as market-

1 driven systems. However, the secretariat's report at the TC
2 86 meeting in Moscow in September 1989, indicated that new
3 thrusts will affect the way ISO standards are prepared -- in
4 that each standard will be expected to address its impact on
5 health and safety of the product, system or practice.

6 We think something more than the term market-
7 driven is needed to describe the needs and motivations
8 concerning impacts of standards on safety, on health, on
9 energy efficiency and on environmental protection.

10 While economics must be included when considering
11 practical solutions, a solely market-driven system will not
12 always solve problems created the need to address the above
13 concerns.

14 In a cooperative mode, the public sector should
15 lead by setting policy and pointing out problems and
16 potential solutions; the private sector should advise how
17 problems can be solved most efficiently.

18 Thank you for the opportunity to participate in
19 this review of the state of health of U.S. activities
20 related to domestic and international consensus standards
21 activities.

22 CHAIRMAN WARSHAW: Thank you, Mr. Grumman. Are
23 there any questions from the panel? Mr. Donaldson.

24 MR. DONALDSON: Does ASHRAE have a policy or a
25 procedure whereby it considers the prevailing international

1 standards before it begins standards development? And if
2 so, how is that implemented?

3 MR. GRUMMAN: Well, in my experience with ASHRAE,
4 it has never adopted an international standard. It
5 considered it once about five or six years ago when I was on
6 the Standards Committee. Perhaps if, with your permission,
7 if the manager of standards might want to comment on his
8 experience with that.

9 MR. HELDENBRAND: We do consider them in the sense
10 that we, as a matter of policy, look at existing ISO
11 standards. A case in point would be a project committee we
12 have now on a computer protocol for energy management
13 control systems.

14 This standard project committee 135-P has studied
15 over 50 ISO standards thoroughly and is working to try to
16 make sure that what the committee comes up with is
17 compatible.

18 MR. DONALDSON: To what extent do the ISO or IEC
19 standards reflect prevailing ASHRAE wisdom? To what extent
20 have you been able to be influential in having your
21 positions adopted?

22 MR. GRUMMAN: As I mentioned, ASHRAE has a
23 secretariat, one of the ISO TC's. So I think his experience
24 might be appropriate for comment here.

25 MR. HELDENBRAND: Within the ISO realm, our

1 experience or effectiveness has been principally in the TC
2 86 realm which is titled Refrigeration, however it covers
3 refrigeration and air-conditioning and is a broader
4 committee than the title indicates.

5 There are other ISO committees and IEC committees
6 that we could and should be participating in.

7 CHAIRMAN WARSHAW: Thank you very much, Mr.
8 Grumman, and your associates, from ASHRAE.

9 We now have Mr. French of the American Institute
10 of Aeronautics and Astronautics. Mr. French.

11 MR. FRENCH: Thank you. Good afternoon. My name
12 is James French. I manage the Standards Program for the
13 American Institute of Aeronautics and Astronautics, known
14 throughout the aerospace community as AIAA.

15 This Institute is a non-profit professional
16 society dedicated to advancing the arts, sciences, and
17 technology of aeronautics and astronautics and to promoting
18 the professionalism to those engaged in these pursuits.

19 We have a membership of over 43,000 drawn from all
20 levels of American industry, academia, private research
21 organizations, and government, as well as from numerous
22 nations abroad.

23 The cornerstones of AIAA programs have always been
24 technical meetings and publications. The AIAA Standards
25 Program was begun just ten years ago. This timing was

1 indicative of the recognition of the importance of modular
2 designs and reusable spacecraft.

3 The program has received close attention by our
4 Board of Directors from the outset. Once AIAA standards
5 publications complete our procedures, they are submitted to
6 ANSI for recognition as American National Standards.

7 Increasingly, related organizations in other
8 space-faring nations are examining the projects underway in
9 AIAA and are participating with us toward a goal of common
10 international package related to design and deployment of
11 spacecraft.

12 Just last year, the ISO Technical Committee
13 responsible for space vehicles, TC 20, formed its first
14 subcommittee dealing specifically with astronautics.

15 In response to the questions put before this
16 public hearing, AIAA has found that the U.S. standards
17 system, as presently constituted, serves the needs of the
18 aerospace community. In fact, there is an increasing trend
19 for the several trade and professional organizations in this
20 field to collaborate on technical questions of mutual
21 interest.

22 This condition extends to such organizations in
23 other countries. Standardization has benefited both the
24 aircraft and the air transportation industries dramatically;
25 it is hoped that engineering harmonization in space can

1 achieve comparable results.

2 AIAA believes that government agencies should
3 participate in standardization to the full extent of their
4 own mission interests or those of their constituencies.

5 In aerospace standards work, some federal agencies
6 participate more fully than others, but none are unaware of
7 or are left out of the planning or conduct of new
8 activities. At this time, the means for coordinating this
9 work is adequate because the total number of players is
10 small.

11 On the international scene, AIAA staff and
12 committee representatives attend international standards
13 meetings regularly. To date, the expenses for committee
14 representatives have been borne by their employers.

15 We are looking into common funding techniques such
16 as those used by other professional societies for many years
17 in order to send the most qualified representatives
18 irrespective of their employers' resources.

19 The international and domestic aspects of
20 aerospace standards are assigned to the same committee under
21 AIAA practices. At this time, it appears that we, in the
22 United States, are better equipped to lead aerospace
23 standardization because there are society and association
24 mechanisms in place.

25 In Europe, technical issues regarding aircraft are

1 being addressed in a similar manner, but little attention
2 has been given to standardization for spacecraft through the
3 customary techniques.

4 AIAA would like to take this opportunity to
5 propose that the hearing consider the establishment of a
6 standards foundation, directed by a public board and funded
7 by appropriation.

8 The Secretariat for such a foundation could reside
9 in the Department of Commerce, if desired. The principal
10 role for the standards foundation would be to make financial
11 grants to accelerate the development of standards and guides
12 used in the development, production and testing of U.S.
13 products and services.

14 Grant approval could be made for any of the
15 following reasons: For standards development -- that is the
16 development of consensus standards for products identified
17 as particularly trade-sensitive. Funds would be subject to
18 competition among U.S. entities affected by the relevant
19 projects.

20 For travel, lack of funds for this purpose has
21 been a deterrent in promoting U.S. technology in many
22 spheres of influence and for obtaining the most qualified
23 representatives. Secretariats, TAG administrators, and
24 other concerned parties could be potential grant recipients
25 for funds to send participants to domestic or international

1 meetings, conferences, and workshops to establish or present
2 U.S. positions.

3 For fees, the cost of participating in national
4 and international standards development organizations is
5 substantial. Some of the funds could be allocated for
6 assuring participation in trade-sensitive areas that might
7 be otherwise neglected.

8 For publication and reproduction, the initial cost
9 of publishing and reproducing standards documents for
10 international use is substantial. Grant recipients might
11 receive such funds on a matching basis.

12 For translation, leadership in standards requires
13 translation into other languages which is a feat that is
14 more expensive in the United States than in Europe because
15 of our principal reliance on English in this country.

16 At the same time, mere utilization of standard
17 practices, as encouraged under the GATT Code, can be
18 difficult when the source documents are in an unfamiliar
19 language. Perhaps the foundation could sponsor translations
20 in major cases and match grant recipients' funding in
21 others.

22 Astronautics standardization is a young discipline
23 because so many projects have been characterized by single-
24 use equipment. With the current space shuttle and plans
25 underway in several areas for modular satellites,

1 serviceable spacecraft, and space robotics, the utility of
2 standards will increase exponentially.

3 It is predicted that internationally harmonized
4 standards for space activities will be necessary in the near
5 future to prevent serious space accidents, loss of major
6 missions, and the mitigation of debris.

7 The issue of testing and certification for space
8 flight equipment is just beginning to be addressed. There
9 is essentially no background experience on the reciprocal
10 acceptance of test data in this field.

11 As qualification test methods suitable for use in
12 scaled-up production of space flight equipment are
13 developed, it is likely that they will be harmonized among
14 interested nations from the beginning.

15 When certification methods are determined, it also
16 seems likely that techniques will be drawn from the ISO
17 Guides. Hopefully trade barriers can be avoided as
18 commercial space activity grows in greater service to
19 mankind.

20 We are providing additional explanatory material
21 about the AAIA Standards Program with our presentation.

22 CHAIRMAN WARSHAW: Thank you, Mr. French. Mr.
23 Donaldson.

24 MR. DONALDSON: Jim, I was interested in your
25 reference to techniques used by other societies that are

1 proven techniques for sharing the wealth, so-to-speak, among
2 the less affluent members.

3 Would you be able to share with us either some
4 society names as examples, and/or a technique or two that
5 are currently in use, if you have that at your fingertips?

6 MR. FRENCH: Well, I believe the Instrument
7 Society of America, one of the earlier testifiers, maintains
8 a common funding pool. When I worked for the Trade
9 Association of Process Control Manufacturers and we held a
10 Secretariat, we did that technique -- that is, a standards
11 travel budget for each year was established.

12 The contributions of participating firms was
13 pooled together so that delegates could be people from other
14 than the immediate membership, according to needed
15 expertise.

16 MR. DONALDSON: Sorry, you put that in the past
17 tense. Do you know if that is still the practice?

18 MR. FRENCH: I do not know whether that is still
19 the practice.

20 MR. DONALDSON: Thank you.

21 CHAIRMAN WARSHAW: Any other questions? Well,
22 thank you very much. We appreciate you presenting us with
23 your comments today.

24 Next we have the Society of Automotive Engineers.
25 As you recall, they were switching slots at ANSI's request

1 so that the Society of Automotive Engineers and the U.S.
2 National Committee for the IEC represented by its chairman,
3 Ron Reimer will step forward.

4 (Pause.)

5 CHAIRMAN WARSHAW: We will start out with the
6 Society of Automotive Engineers and I will ask Max Rumbaugh,
7 the President of that society to introduce his associate and
8 please offer his comments.

9 MR. RUMBAUGH: Thank you. Dr. John Mason who is
10 the 1990 SAE President, sends his regrets for not being able
11 to be here today.

12 Joining me is Dr. Lamont Entinge, director of
13 research at Eaton Corporation, SAE's president-nominee for
14 1991 and currently an SAE fellow in the Office of Science
15 and Technology Policy.

16 I am here on behalf of Dr. Mason, SAE's president.
17 As you indicated, my name is Max Rumbaugh, Jr., and I am
18 SAE's executive vice president.

19 I am here today to present SAE's response to the
20 central purpose of this hearing described in the Federal
21 Register on improving U.S. participation in international
22 standards activities, opportunity for interested parties to
23 comment.

24 As background, SAE is a worldwide organization
25 whose membership tops 50,000. The purpose of SAE is to

1 advance the knowledge of the arts, sciences, standards, and
2 engineering practices connected with the development,
3 design, construction, and use of self-propelled machines.

4 One of SAE's primary services is the development
5 of over 6,000 voluntary standards total to date and active,
6 837 in 1989 alone, produced by some 13,000 volunteers from
7 industry and government. SAE is one of the major accredited
8 standards-writing organizations under the American National
9 Standards Institute, ANSI, system.

10 ANSI effectively serves as the coordinating and
11 accrediting body for the U.S. standards-writing system.
12 ANSI also serves as the official U.S. member to the
13 International Organizations of Standardization, ISO.

14 SAE likewise plays an important role in the
15 international standards arena by supporting several U.S.
16 Technical Advisory Groups and secretariats for ISO and IEC.

17 These groups include TC 20, Aircraft and Space
18 Vehicles; TC 22, Road Vehicles; TC 70, Internal Combustion
19 Engines; and TC 127, Earthmoving Machinery.

20 SAE also administers various quality assessment
21 and accreditation programs which are partially sponsored by
22 the U.S. Government.

23 SAE has been successful in having its standards
24 accepted worldwide. For example, and only examples, only
25 four of the total, is the RPHE's which is the rollover

1 protection of highway equipment, Oil Viscosity Rating that
2 are used worldwide, threads for the aerospace fasteners and
3 VIN, the vehicle identification number system used worldwide
4 for vehicles.

5 Today I will provide you with SAE's concerns of
6 the proposal by NIST to establish SCUSA which is being
7 designed to increase government influence on the standards-
8 writing process and which may impair the effectiveness and
9 efficiency of this system.

10 My remarks will reflect SAE's position which was
11 developed with input from two of its operating boards,
12 namely the Technical Board which develops standards and the
13 Performance Review Board which administers quality
14 assessment and accreditation programs.

15 Our position responds primarily to the proposal
16 distributed by Dr. Stanley Warshaw. In our judgment, this
17 proposal is sketchy and leaves a number of unanswered
18 questions.

19 In considering this proposal, we have surfaced
20 three basic issues: One, how can we most effectively
21 coordinate U.S. standards developers and certification
22 bodies?

23 Two, what is the optimal degree of government
24 participation in and financial support for U.S. standards-
25 writing and product certification?

1 Three, how can the U.S. best meet the challenges
2 of EC 92 in the international standards field?

3 SAE's response to the issues: How can we most
4 effectively coordinate the U.S. standards developers and
5 certification bodies?

6 The NIST/SCUSA proposal calls for government
7 accreditation of standards developers which is tantamount to
8 the government regulation the standards process. This is a
9 direct challenge to the independence of the voluntary
10 standards community. The current ANSI system is strong
11 because of its fairness and openness to all participants.

12 SAE believes that the standards system works more
13 effectively with government participation, not government
14 control. Therefore, the government and NIST in particular,
15 should rejuvenate its support of the ANSI system and
16 participate in programs where government, industry and the
17 standards development organizations form a broad-based
18 constituency.

19 The proposal as stated puts SCUSA, with limited
20 membership, in an oversight and control position which would
21 create an imbalance in the system. This is not necessary,
22 nor is it an effective way to manage the system.

23 If, in effect, there are any weaknesses in the
24 current system, then we have an obligation to call these to
25 ANSI's attention and work with ANSI to ensure that

1 corrective action is a high priority.

2 For example, the ANSI government member council
3 and NIST's membership on the ANSI board can be used for
4 governmental input into the ANSI system.

5 The second area, what is the optimum degree of
6 government participation in and financial support for U.S.
7 standards-writing and product certification?

8 Government support for the voluntary standards
9 system means that the government should participate in the
10 system, not control it. The primary role for government
11 should be to support the participation of government
12 employees in the process which SAE encourages.

13 The proposal suggests that funding could be made
14 available to the voluntary standards organizations to
15 support their standards-writing activities and participation
16 in the international standards development efforts.

17 The capability of NIST to provide direct funding
18 dollars should be seriously questioned. With the current
19 budget-cutting throughout the government, it is highly
20 improbable that NIST will have sufficient money to give to
21 standards-writing bodies.

22 Industry and the standards-writing community
23 contribute millions of dollars in manpower and direct
24 expense funds to the process. The Federal Government should
25 be capable of paying its fair share by supporting government

1 employees' travel and time, and paying a fair share of the
2 direct expenses to the standards developing organization.

3 Therefore, the government control over the process
4 should come only through its participation and a
5 contribution of a fair share of the expenses for the running
6 of the program, as is the case with industry.

7 I would be remiss if I failed to mention the very
8 high degree of success SAE has had with the Department of
9 Defense in the standards process. For years, DoD has
10 participated and supported SAE, ANSI and the other
11 standards-writing bodies.

12 In November 1988, Dr. Robert Costello, then the
13 Under Secretary of Defense, published a report entitled,
14 "Enhancing Defense Standardization" in which he said,
15 "substantial savings could be achieved by even greater
16 reliance on non-government standards rather than overly-
17 restrictive military specifications for commercial products
18 and processes."

19 Mr. Chairman, it is my understanding that his
20 replacement, Mr. Betty, supports that same position.

21 This trend is the appropriate theory for
22 government participation.

23 Further, the involvement of employees of the FAA,
24 NASA, the EPA, DOT, DoD and NIST and SAE standards
25 committees is an excellent model.

1 Three, how can the U.S. best meet the challenge of
2 EC 92 in the international standards field?

3 There is no doubt that the impending changes in
4 Europe with regard to EC 92 is forcing the U.S. to alter its
5 view of the standards development process.

6 Relationships between the U.S. Government and the
7 European Community, EC, will have to be strengthened and the
8 Department of Commerce is the obvious agency to handle this.
9 Standards, however, are a different issue.

10 The EC has delegated the job of developing
11 standards to CEN/CENELEC. CEN/CENELEC consists of the
12 standards-writing organizations from the member countries of
13 the EC, similar to ANSI and its membership.

14 The relationship between CEN/CENELEC and the EC
15 should be similar to the relationship between ANSI, its
16 members, and the U.S. Government. With this free enterprise
17 system gaining strength in Europe, it is an inappropriate
18 time for the U.S. to consider a government-controlled
19 system.

20 SAE believes that a direct relationship between
21 ANSI and CEN/CENELEC will be the key to successful worldwide
22 standards coordination.

23 In summary, SAE opposes the stated proposal
24 because SAE believes that the current U.S. voluntary
25 standards system is efficient, cost-effective, and highly

1 productive.

2 The system produces thousands of high-quality
3 standards each year which are responsive to the needs of
4 American industry and government. The Federal Government
5 should participate and support this system just as industry
6 does.

7 The voluntary standards system mirrors our culture
8 and commitment to free enterprise. While government has an
9 important role to play, SAE believes it would be a serious
10 mistake to alter the basic character of the free enterprise-
11 based system.

12 Therefore, SAE offers the following
13 recommendations to upgrade, strengthen, and reaffirm the
14 current system.

15 One, NIST should endorse ANSI as the U.S.
16 voluntary standards system coordinator and accreditator.

17 Two, NIST should encourage participation and
18 provide support for the voluntary standards system by all
19 U.S. Government agencies.

20 Three, NIST should recognize and support ANSI as
21 the direct interface with CEN/CENELEC and ISO.

22 Four, the Federal Government should provide
23 limited designated funding in support of future standards
24 activities. Primary funding would continue to be provided
25 by free enterprise agents.

1 Thank you for your attention, Mr. Chairman.

2 CHAIRMAN WARSHAW: Thank you, Mr. Rumbaugh. Are
3 there any questions from the panel? Ms. Moore.

4 MS. MOORE: You mentioned a number of other
5 participants that you think the U.S. Government should pay
6 its fair share of the costs of those standards development
7 activities that it benefits from.

8 I notice that a number of other participants
9 suggested that increased government control of standards
10 development would leave the system open to the vagaries of
11 the federal budget allocation process.

12 Could you elaborate a little on how you think you
13 could avoid that problem in a fair share payment system?

14 MR. RUMBAUGH: I think that it is a responsibility
15 of the government to pay their fair share of the cost when
16 many of the SAE standards are, in fact, adopted by various
17 government agencies and used for various purposes, just as
18 industry does the same thing.

19 Industry will adopt SAE standards and use them in
20 their process. We expect industry to pay their fair share
21 of that cost, dependent upon how much and what use they make
22 of it. We feel that the government should find a mechanism
23 for being able to do that.

24 Obviously, there is a concern that through the
25 budgeting process, which is one of the reasons we oppose the

1 NIST/SCUSA proposal, that through the government budgeting
2 process, that funding might be deleted.

3 We have the same problem in industry, that during
4 the budgeting process, that funding could be deleted, but it
5 is important that in the budgeting process, that a
6 recognition of the importance of standards and the
7 recognition of the importance of an obligation to pay the
8 fair share should be emphasized and should carry the weight
9 through the budgeting process.

10 CHAIRMAN WARSHAW: Mr. Leight.

11 MR. LEIGHT: I'd like to ask two quite different
12 questions. First, what is the relationship of your SAE oil
13 standards with international standards of the same kind?

14 MR. RUMBAUGH: The relationship is generally one
15 of de facto standards in that our standard is, in fact, used
16 by other organizations for viscosity ratings. But I am not
17 sure and I would have to check it out and find out if it, in
18 fact, is an ISO standard. I do not believe that it is. I
19 believe it is a de facto used standard throughout the world.

20 Many of our standards in other areas are a basis
21 for ISO standards also, but that particular one, I do not
22 believe it is.

23 MR. LEIGHT: The second question has to do with
24 the fact that you have talked virtually exclusively about
25 standardization, as most other people have today, and yet

1 you also are quite involved in certification programs.

2 I wonder whether you would care to make a few
3 brief comments about your certification programs and how
4 this would affect our relationships with the European
5 community and other parts of the world?

6 MR. RUMBAUGH: Yes, thank you. I had the pleasure
7 of participating on the standards side with an ANSI group
8 that went to Europe in late July to participate in
9 CEN/CENELEC on both standards and certification processes.

10 So I am therefore familiar with the European
11 process, the status of their process of developing a
12 mechanism in Europe, and also followed, of course, the
13 results of the group that did go on March the 12th. I was
14 not able to go then, but was very pleased with the results
15 that came out of it.

16 My understanding is that Europe is far from having
17 a coordinated mechanism and they are still developing their
18 own process. As I understand it, they have encouraged the
19 United States to go very slow in developing any kind of
20 interfacing mechanism with them until they decide what they
21 want to do -- don't, for us, necessarily, get ahead of them
22 in anticipation that they are doing something.

23 To specifically answer your question, the USSAE
24 does have a certification process. It is primarily aimed at
25 the United States, secondarily at North America. We are

1 establishing liaisons with those groups who are doing those
2 kinds of things in Europe, following the same lead, however,
3 that the CEN/CENELEC advised ANSI, not getting ahead of them
4 but staying in contact with them in order to monitor what
5 they are doing so we would be a in a position to coordinate.

6 Our contacts are in the aerospace area and in the
7 ground vehicle area, both, in this regard.

8 MR. LEIGHT: Thank you.

9 CHAIRMAN WARSHAW: Thank you, Mr. Rumbaugh. Mr.
10 Donaldson.

11 MR. DONALDSON: Mr. Rumbaugh, I have two
12 questions. The first question pertains to what I think you
13 may have implied, and I certainly inferred, that you would
14 encourage NIST to rejuvenate its participation in some of
15 the standards activities.

16 I wonder if I should too infer that other
17 government agencies may have slipped over recent years or
18 not. Are there other government agencies that you have
19 perceived that their participation level may be down for
20 whatever reasons -- the funding vagaries we have heard of or
21 whatever else? That's my first question.

22 MR. RUMBAUGH: Obviously, in answering your
23 question, let me address the first issue first, and then the
24 second one.

25 My comments were made primarily at NIST supporting

1 the ANSI system. I feel that it would be extremely
2 beneficial to the voluntary standards system if, in fact,
3 the Federal Government would officially recognize ANSI as
4 being the official coordinator. So that was the one
5 position or statement that I made.

6 The second one, then, has to do with participation
7 and support in the various parts of the system throughout.
8 This, again, is a personal observation and that personal one
9 would be that, in fact, we are not at the bottom of
10 government participation. That was probably a few years
11 ago.

12 I have been very pleased to see an increase in
13 participation over the last few years in the standards
14 development process by various government agencies -- NIST
15 and SAE working closely on the IJES, a process in the
16 certification effort. That is relatively new. That is
17 beneficial.

18 DoD has, under the strong support of Pete Yurcisin
19 and his organization is encouraging stronger participation
20 and new mechanisms of both funding support and development
21 in this area.

22 So I say we are coming up, not going down and not
23 at the bottom would be my perception. Certainly, an
24 increase in that regard would be beneficial. I would
25 personally, again, support the comments made earlier this

1 morning that having funding and support for the government
2 experts in overseas standards-writing activities would be
3 beneficial. That would be the other specific area I was
4 addressing.

5 MR. DONALDSON: Going back to the comment you made
6 which really goes to the heart of what I think was your
7 first recommendation, that NIST should endorse ANSI's role
8 as coordinator and accreditor. I wondered accreditation of
9 what?

10 MR. RUMBAUGH: Primarily for coordination, the
11 efforts that are happening in the accrediting. I do not
12 believe that ANSI, themselves, has yet determined precisely
13 the role that they would play in this regard and there are
14 other agencies that are looking at that.

15 I recognize that, but I think that a coordinating
16 role in this regard and support by NIST of that coordinating
17 role would be beneficial and I do believe that the jury is
18 still out as to the precise role that they and other groups
19 would play, should play.

20 MR. DONALDSON: Thanks. You did mention
21 accreditor and I didn't know if you meant to restrict that
22 to accreditor of standards-writing bodies or not. Thank
23 you.

24 MR. RUMBAUGH: That is also the case, yes.

25 CHAIRMAN WARSHAW: Okay, Mr. Ludolph.

1 MR. LUDOLPH: I have a couple of points of
2 clarification.

3 One regards your recent visit to Brussels on this
4 delegation. You indicated that the CEN/CENELEC delegation
5 cautioned the United States private sector not to move too
6 quickly in organizing. I assume that that refers to the
7 non-regulated product sectors involved in the EOTC rather
8 than the EC commission's advise that they want you to slow
9 down the time table on regulated products because they are
10 not going to implement very quickly their regulations before
11 1992.

12 Was it the regulated products that you were
13 talking about with CEN/CENELEC, or the unregulated products?

14 MR. RUMBAUGH: My comments are from only having
15 read the reports that came from the committee that went, so
16 I was not a party to those discussions.

17 My understanding of having read those reports is
18 -- and again I was directing my comments strictly to the
19 accreditation process, not to the standards-writing process
20 -- and as I understood in both areas, the Europeans do not
21 yet have a mechanism for coordinating their own
22 accreditation process.

23 They are still in the process of developing some
24 kind of a mechanism for doing that, and their encouragement
25 to us was don't respond too quickly to what you are seeing

1 in Europe because we haven't got our act together yet.

2 MR. LUDOLPH: I have one additional question. You
3 sit in a unique position, I think, of many of the people who
4 testified here today, in that you face in the European
5 community a mandatory standard situation for ground
6 vehicles, unlike anything we have faced in most of the other
7 product sectors we've heard about today.

8 Land vehicles, automobiles, as well as tractors
9 and other off-road vehicles are mandatory standards not
10 developed by CEN/CENELEC but could come from any place and
11 are cooked pretty much within the European community
12 commission.

13 In that instance, how do you intend to respond
14 here in the United States regarding certifying vehicles or
15 standards that come into the United States for use here in
16 the United States?

17 MR. RUMBAUGH: I do not anticipate that we will
18 get into the certification of that area from the point of
19 view that there are no discussions in that regard.

20 Allow me to address the first part of your
21 comment, also, is that you are very correct, we are unique
22 in that as a result of the ANSI interfaces with CEN/CENELEC,
23 we have been able to learn that, in fact, they are not
24 developing voluntary nor regulatory standards through the
25 CEN/CENELEC process for automobiles, nor for aircraft.

1 Therefore, we have a very unique situation in that
2 they are not centralizing their process in many of the areas
3 which we developed standards at all, so we must continue to
4 follow a number of different groups, not only each of the
5 national bodies but also coordinating bodies outside of
6 CEN/CENELEC for that process.

7 But the specific answer to your question is that
8 we are primarily looking at our certification processes in
9 the U.S. and interfacing with the bodies that have a
10 regional coordination of certifications in those areas.

11 Interfacing with them, we are still in the very
12 early stages of discussing how we can interface with them
13 because they aren't very far along and ours is strictly at a
14 U.S./North American process and we are not certifying
15 automobiles.

16 CHAIRMAN WARSHAW: If there are no further
17 questions, thank you very much, Mr. Rumbaugh, for a very
18 fine presentation.

19 Mr. Reimer, Chairman of the USNC, U.S. National
20 Committee of the IEC.

21 MR. REIMER: Thank you, Dr. Warshaw.

22 Good afternoon panelists and other ladies and
23 gentlemen. My name is Ron Reimer. I am with Allen Bradley
24 of Rockwell International Company where I coordinate my
25 company's participation in standards activities and look

1 after product regulations affecting my company and our
2 customers worldwide.

3 Today I am here in my capacity as the President of
4 the United States National Committee of the International
5 Electrotechnical Commission and I present the USNC's
6 statement for these hearings.

7 The complete USNC's statement was previously sent
8 to Dr. Warshaw's office and I respectfully request that the
9 complete written USNC statement becomes a part of the record
10 of these proceedings.

11 CHAIRMAN WARSHAW: Yes.

12 MR. REIMER: Thank you.

13 The United States National Committee, USNC, of the
14 International Electrotechnical Commission, IEC, is the
15 member body of IEC and the major national focal point for
16 electrical and electrotechnical international
17 standardization, and through the relationships between IEC
18 and CENELEC for certification and tests.

19 Dr. Warshaw, if I were to introduce all of the
20 individuals in this room who are part of the USNC, I would
21 surely overrun the time allocated to me. This statement is
22 made to emphasize that the USNC is a volunteer managed and
23 staffed organization.

24 All of the members of the USNC's managing body,
25 the USNC Executive Committee, all of the managerial and

1 technical expert participation in the International IEC
2 meetings, all of the U.S. individuals who serve as
3 international chairs and international secretariats, and all
4 of the participation in the corresponding U.S. support
5 organizations is by U.S. individuals.

6 All of the approximately 3,500 individuals whose
7 direct voluntary roles in the USNC I have just identified
8 are financially supported by their employers. These
9 volunteers are supported based on commercial justification
10 -- repeating, based on commercial justification -- by
11 individual user and producer companies, by professional and
12 trade associations, by segments of national and local
13 governmental agencies, by academia and by other concerned
14 interests.

15 The USNC recommends that NIST give consideration
16 to working with industry groups to develop tax incentive
17 legislation to encourage industry to put more resources to
18 work on standards and certification activities.

19 It is the considered opinion of the USNC that the
20 present U.S. standards system adequately serves the various
21 trading needs in today's climate.

22 As a separate submittal to these hearings, the IEC
23 Central Office Geneva provided documentation of the
24 successful management and technical participation of the
25 U.S., through the USNC in the IEC.

1 I respectfully request that this IEC Central
2 Office submittal also become part of the record of this
3 hearing.

4 CHAIRMAN WARSHAW: It will be.

5 MR. REIMER: The USNC feels that increased
6 participation in the existing infrastructure by members from
7 the U.S. Government is desirable and should be strongly
8 encouraged by adherence to the spirit of OMB Circular A-119.

9 We believe an effectively operating
10 infrastructure, indeed, does exist and to tamper with that
11 infrastructure would invite gross breakdown of U.S.
12 industry's ability to compete internationally.

13 Notwithstanding a statement made earlier today,
14 the current U.S. system for participation in voluntary
15 international electrotechnical standards activities is a
16 centralized system which works effectively under the
17 umbrella of the USNC.

18 The USNC has established procedures for U.S.
19 participation in the IEC standardization process. This
20 standards development system is open to all materially
21 affected parties, both public and private, and the operating
22 procedures are based upon due process and the development of
23 consensus U.S. positions.

24 Through this process, U.S. positions to the IEC
25 are developed and put forth.

1 With regard to the use of the international
2 standards, the USNC has observed a marked trend toward the
3 U.S. adoption of international standards wherever possible.

4 At this point, I would add that this is not
5 something that you can perceive simply by looking for IEC
6 numbered standards in other associations. They are adopted
7 either in context included in existing U.S. standards, re-
8 numbered or re-labeled.

9 The USNC believes that the issues involved in EC
10 92 certification and testing are extremely sensitive and
11 vary from industry to industry. Because the European
12 community's position on third nation relations is not fully
13 developed, it is premature to provide constructive comments.

14 However, the USNC supports the position that ANSI
15 should serve as a catalyst to bring together a broad
16 coalition of private sector interests to develop a national
17 consensus on this certification and test issue.

18 The USNC believes that a positive and cooperative
19 environment for interaction between industry and government
20 should be encouraged. However, the proposal to create a
21 Standards Council of the United States of America is an
22 unacceptable approach towards achieving this goal.

23 Our written statement offers supporting comments
24 to this position.

25 The USNC recommends that NIST work with ANSI in a

1 cooperative partnership to make broadly available a
2 comprehensive, user-friendly data base that contains all
3 world standards and possibly certification and testing
4 information, including new work items.

5 The USNC believes that this service would enhance
6 this country's competitive position.

7 Thank you, Mr. Chairman. I would be happy to
8 answer any questions you have.

9 CHAIRMAN WARSHAW: Thank you, Mr. Reimer. Are
10 there any questions from the panel? Mr. Ludolph.

11 MR. LUDOLPH: Mr. Reimer, I was interested in your
12 comment about midway through your statement. It refers to
13 the recommendation that ANSI serve as a catalyst to bring
14 together a broad coalition of private sector interests to
15 develop a national consensus on certification and testing.

16 In light of the issue that many certifications
17 derive from public sector interests in safety, health and
18 environmental protection, is there a role for government --
19 either at the state or local level -- in developing this
20 consensus?

21 MR. REIMER: If you are referring to certification
22 in the restricted arena, I guess the answer would have to be
23 yes. There are those certification programs in the United
24 States that are government regulated, if you will,
25 government-run, that match IEC certification programs.

1 Some IEC certification programs are conducted on a
2 voluntary basis in the U.S. and there is a mismatch, so
3 there are -- I think the idea of a coalition is most
4 appropriate because the European community, we would tend to
5 view it as being a unified governmental control kind of
6 thing, and we don't need to match that. There is no need
7 for us to change how the U.S. does business or writes
8 standards or does certification, simply because the
9 Europeans are changing the way they are doing business and
10 writing standards.

11 MR. LUDOLPH: Do you see this challenge coming
12 from other places other than the European community --
13 Canada, Japan? Any other areas?

14 MR. REIMER: The challenge of ---

15 MR. LUDOLPH: The area of either regulated,
16 restricted or non-restricted certification systems causing a
17 need or a recommendation for a national consensus to be
18 developed.

19 MR. REIMER: Right now, obviously, the press is
20 all going to the EC 92 effort and that is not to diminish
21 the importance of whatever is happening between the United
22 States and Canada, but I think that's a more natural
23 harmonious evolution than we are looking at the European.

24 There is an aspect of what is happening in Europe,
25 in particular the development of standards from the point in

1 time after it is announced as a standards project until the
2 final draft or the first public comment draft where we still
3 have yet to achieve satisfactory exposure in all cases
4 across the line.

5 There are individual instances where through the
6 IEC participation we can get a look at -- well, I can't say
7 participate -- observe what is happening during that writing
8 process. What is an overall cure, there is nothing so that
9 is more of a concern at this time.

10 CHAIRMAN WARSHAW: Thank you. Any other
11 questions?

12 All right, thank you, Mr. Reimer. I want to point
13 out that Mr. Reimer did ask in his presentation to include
14 the submittal of the IEC with respect to our request for
15 written comments, and of course, the information is at the
16 back of your agenda, how that will be obtained, can be
17 obtained after these hearings, along with other written
18 comments.

19 We do have numerous written comments -- many, many
20 with very constructive suggestions and I suggest those
21 caring to peruse those in the DOC reading room as is
22 illustrated in the back of your agenda.

23 So again, I want to thank you very much for your
24 contribution today. We will now take a break and reconvene
25 at 3:45 where we will have the Underwriter Laboratories and

1 the American Council of Independent Laboratories who will
2 then make their presentations.

3 (Whereupon, a brief recess was taken from 3:25
4 p.m. until 3:45 p.m.)

5 CHAIRMAN WARSHAW: Ladies and gentlemen, we will
6 begin the afternoon session with a different category, if
7 you will, of laboratories, certifiers, etc., and we have
8 before us the first two entities, namely Underwriters
9 Laboratories and the American Council of Independent
10 Laboratories.

11 So I will ask Mr. Castino, the chief operating
12 officer, or about to be the chief operating officer of
13 Underwriters Laboratories if he would introduce his
14 associate and begin.

15 MR. CASTINO: With me today is Joe Bhatia of
16 Government Affairs and Joe and I will share the presentation
17 that we have for you.

18 Good afternoon, we are in the home stretch.

19 UL's involvement and interest in the areas of
20 standards, testing and certification both in the U.S. and
21 internationally, is very extensive. Therefore, we are most
22 pleased to present our views on U.S. participation in
23 international standards-related activities.

24 It seems clear that an appropriate coordinated
25 strategy between the government and private sectors has the

1 potential to provide opportunities for improvements in the
2 functioning of the present system.

3 However, in our attempts to do so and to achieve
4 the optimum solution, all the pertinent aspects of this
5 issue must be understood and carefully analyzed so as not to
6 expend misdirected efforts or unnecessarily disturb the
7 properly functioning aspects of the U.S. standardization
8 system.

9 The brief statement that Joe and I are planning to
10 deliver today is a synopsis of the key observations and
11 recommendations based on UL's many years of experience in
12 these related areas.

13 We will focus on four areas: standardization,
14 testing and certification, accreditation, and finally,
15 international developments.

16 In the U.S., the overall standardization effort,
17 as you have heard today, is shared jointly by the government
18 and the private sectors.

19 This standardization system is strong, effective,
20 but functionally it is delicately balanced with key roles
21 being played by the government agencies, private sectors
22 entities, jurisdictional authority, and consumer interest.

23 The nature of the system is affected by state's
24 rights and legal requirements, especially those pertaining
25 to the products liability laws as they exist here in the

1 U.S.

2 The private sector structure permits high quality
3 standards to be developed over a wide range of products and
4 associated activities, in a relatively short period of time
5 and at no cost to the Federal Government.

6 At the same time, this system permits the
7 introduction of new and innovative products into commerce by
8 providing a high degree of flexibility in the development
9 and revision of these standards. U.S. Government adoption
10 of thousands of private sector standards is a testimonial to
11 the quality and effectiveness of the U.S. standardization
12 system.

13 For all of its complexity, overall, the U.S.
14 standardization system is efficient, flexible, accessible
15 and perhaps, most significantly, it works. It is structured
16 to effectively respond to international developments as they
17 evolve. It should not be disturbed just to create a greater
18 degree of central coordination.

19 Now Joe Bhatia will cover some key points relating
20 to the issues I identified earlier.

21 MR. BHATIA: First of all, it is important to note
22 that most of the product testing carried out in this country
23 does not result in certification. Therefore, the number of
24 laboratories that conduct developmental, performance,
25 quality or other types of testing far exceeds those that

1 carry out testing for certification purposes.

2 When considering the broad range of purposes for
3 which certification programs are conducted, it seems clear
4 that programs related to safety, health, and well-being of
5 the public are most critical.

6 In these activities, the role of the third party
7 certifier is vital because these organizations not only
8 determine compliance with a testing and construction
9 requirements of product standard, but also with all the
10 applicable national and local codes.

11 They also investigate product components, conduct
12 plant inspections on an on-going basis, and use and control
13 their certification marks. These are just some of the
14 elements that are necessary to maintain safety.

15 I would like to emphasize the point that this
16 process is not simple. The consequences of failing to
17 properly conduct a product safety certification are awesome.
18 People can be killed or injured. Certification agencies can
19 be sued. Mandatory government standards can replace the
20 more flexible voluntary standards. Regulators and consumers
21 can lose confidence in the certification process, and
22 perhaps most importantly, the loss of stability in the
23 marketplace can become a competitive headache for the
24 manufacturers.

25 Safety certification, ladies and gentlemen, is a

1 serious business.

2 Now, let's discuss accreditation.

3 Our views on laboratory as well as certifier
4 accreditation have been formulated based on our 96 years of
5 experience.

6 A principal concern in the accreditation programs
7 is this: They can be perceived as assuring that a
8 laboratory is conducting uniform and accurate results, and
9 the certifiers are applying all the essential elements when,
10 in fact, the evaluation criteria used in most accreditation
11 programs do not and cannot provide such assurance.

12 A one-time examination of a laboratory or a
13 paperwork review of the certification scheme does not mean
14 very much.

15 To be effective, accreditation filing processes
16 must be comprehensive. Periodic efficiency testing is
17 necessary. Initial and follow-up on-site inspections are
18 essential, and without the accreditation procedures and
19 controls, there really is no program.

20 This comprehensive approach requires extensive
21 time and monetary commitment both on the part of the
22 accreditor and the organization being accredited.
23 Unfortunately, to this date, we have not seen any
24 accreditation programs that include and apply all of the
25 critical elements that meaningfully demonstrate the

1 competence of an accredited organization.

2 For the purpose of our discussions here, it should
3 be noted that even if such a comprehensive national or
4 international accreditation program was developed, its
5 overall need, its value and its benefit, and its economic
6 impact would have to be determined before considering
7 implementation.

8 In the areas where safety is paramount, there is a
9 great deal of concern in our nation today about products
10 liability in general, and the safety of consumers
11 specifically.

12 Federal agencies, regulatory officials, inspection
13 authorities, insurance interests, major retailers,
14 manufacturers and consumers often look for third party
15 certification or some other assurance that every effort was
16 made for the products to be both safe and reliable.

17 All these groups need a system that truly works
18 and an accreditation program which does not contain all the
19 essential elements will, at best, mislead, and at worst,
20 result in non-complying and unsafe products in the
21 marketplace.

22 Now let's review international developments.
23 Although EC 1992 is not the only international activity that
24 should be considered, it is the key motivation behind the
25 debate on how to improve the U.S. system.

1 Presently several unanswered questions remain as
2 to how the EC system will work in the areas of testing,
3 certification and accreditation, especially as related to
4 non-EC, non-EFTA countries.

5 One fact is clear. The acceptance of products
6 into the EC system will be largely dependent on whether
7 these products are regulated or non-regulated.

8 Obviously, in the areas of products are regulated
9 by EC and U.S. both, the EC will logically want to interact
10 with the corresponding governmental authority in this
11 country, and that's fine.

12 However, in the non-regulated areas, the EC has
13 indicated a willingness to work with organizations in the
14 private sector. Also the creation of the EOTC further
15 facilitates private sector interaction.

16 While the international developments clearly
17 indicate a need for coordination of testing and
18 certification mechanisms, it is not mandatory that this
19 coordination take place in the governmental arena, nor is it
20 essential that a U.S.-based accreditation program be a part
21 of this effort.

22 MR. CASTINO: Let me summarize. First, the
23 present standards development in the U.S. is capable of
24 responding to the international needs, including the EC, to
25 the extent that industry desires and commits to responding

1 to these needs.

2 A centralized structure would add little or no
3 benefit to the standards system and may well add an
4 extraneous and conflicting layer.

5 Secondly, it is not presently known whether
6 accreditation of U.S. testing and certification agencies or
7 programs by a governmental or quasi-governmental agency will
8 be required for EC 1992.

9 We recommend that developments in the European
10 community be closely watched before launching an expensive
11 and extensive program of accreditation. If accreditation by
12 a U.S. entity is required to support product acceptance in
13 the EC, UL will support an initiative based on the required
14 operational elements discussed earlier.

15 UL is ready to work with and assist government as
16 well as organizations in the private sector toward achieving
17 the ultimate objectives of fair trade and equal access to
18 all of the markets involved.

19 We thank you.

20 CHAIRMAN WARSHAW: Thank you very much, Mr.
21 Castino, Mr. Bhatia.

22 MR. CASTINO: We didn't get the red light yet.

23 CHAIRMAN WARSHAW: We can proceed without the red
24 light.

25 (Laughter.)

1 CHAIRMAN WARSHAW: Mr. Donaldson.

2 MR. DONALDSON: I would like to address a question
3 to Mr. Bhatia and his comments about national accreditation
4 programs.

5 I wondered if the criteria he was including in his
6 evaluation were consistent with the internationally
7 recognized criteria that were supported by ANSI, or if he
8 has his own set of criteria?

9 MR. BHATIA: I knew you would get a question to
10 me.

11 What we are telling you is based on our experience
12 primarily as a tester and certifier in areas which are of
13 vital interest and concern. Safety, health and environment
14 obviously need to be looked at slightly differently than the
15 general guidelines would cover which are intended to be used
16 in a broader and a generic sense.

17 The criteria that perhaps best work and best
18 protect the elements that need to be covered for an
19 effective and comprehensive program may or may not be all
20 parts of the ISO guides that you referred to, but that
21 doesn't make it unacceptable.

22 MR. DONALDSON: Do you see a need to go further
23 with what is currently the prevailing ISO/IEC approved
24 guides in order to meet what you feel needs to prevail?

25 MR. BHATIA: Well, the guides are just guides and

1 as you very well know, the accreditation systems are not
2 using those guides and are not comparing the performance of
3 each of the elements in those guides to carry out the
4 approval and acceptance of organizations.

5 MR. CASTINO: Don, I might just add, I mentioned
6 it to you during the break, I think the important thing is
7 to look at the guides with respect to the elements that are
8 in the guides.

9 What we are saying is all elements that are in the
10 guides must be covered, and then the level of criteria will
11 have to be adjusted based on globalization issues.

12 Globalization will involve a common denominator
13 approach to some extent, and UL knows to the extent that it
14 can within U.S. laws and within the U.S. market, will have
15 to adjust to some extent when reciprocity mechanisms
16 develop.

17 I urge, however, that we not leave out any element
18 of the guide and that all elements in the guide be covered
19 in criteria be set.

20 MR. DONALDSON: Of course, the implications of
21 your statement are clear, given that within the European
22 community they have adopted the EN 45000 series which are
23 based on those guides, it will say that you might have
24 difficulty accepting some of the systems that will be
25 advocated within the community.

1 MR. CASTINO: With respect to both those two
2 elements, Don, ISO 9000 which is the quality registration of
3 factory operations and the quality operation of a laboratory
4 facility under EN 45000, we have begun to integrate those
5 elements into our programs.

6 I don't think UL will have a problem in being
7 capable of implementing it. The question again will be will
8 the marketplace be able to accept the level of product
9 design changes that might be brought about by the
10 implementation of such programs.

11 MR. BHATIA: If I might add a comment, even the EN
12 45000 series criteria which are essentially the only element
13 for a notified body status as stated by EC, I perceive to be
14 as not being sufficient in all areas of application, and
15 that comment and statement has been made by several
16 individuals in the EC entity itself.

17 They recognize that they need to have a minimum
18 acceptable criteria that will be applicable across-the-
19 board, but if you recognize the differences of various
20 programs that exist within the EC nations, a full 40
21 percent, perhaps, of their entire effort in the first three
22 years is going to be devoted to elevating some of the
23 certification entities' competence so that they can be all
24 perhaps comparable and acceptable to everyone in the EC
25 system.

1 The point is are you going to be able to have the
2 rights of refusal? Are you going to be able to make
3 decisions regarding the data packs or information that is
4 going to be used in your safety or health or environment
5 certification programs.

6 The answer is you have to have some opportunity to
7 determine competence and ability of those whose work you are
8 going to be accepting.

9 CHAIRMAN WARSHAW: Okay, thank you. Mr. Ludolph,
10 and then we will move on.

11 MR. LUDOLPH: A great deal of interest has been
12 put on EN 45000 but we know that the system in the European
13 community is based on essential requirements, not EN 45,000.

14 MR. CASTINO: Right.

15 MR. LUDOLPH: The essential requirements are very
16 much like the same concerns that U.S. regulators have in
17 their interests in protecting safety and health.

18 Is there a recommendation that you have on how to
19 achieve comparability or an interface between the two
20 regulated entities in dealing with essential requirements
21 that would bridge this non-compatibility and perhaps take us
22 away from our emphasis on EN 45000 ISO 9000.

23 MR. CASTINO: Yes, Charlie, we don't really --
24 it's a separate subject. I talked a little bit about it at
25 the ANSI conference but we feel that the data package

1 approach is a way that it can be done.

2 By that, I mean a level of competence has got to
3 be built on the part of the Europeans as well as the U.S. --
4 all entities, I mean manufacturing, regulatory and users --
5 that the essential requirements that exist in each country
6 will be met.

7 The way I think that has to be done is an
8 assurance, based upon the establishment of the system, that
9 will permit the certifying body to attest to compliance to
10 the prevailing standard or standards in that country, the
11 compliance with the quality systems approach that exists in
12 that country -- and we have counterpart systems, believe it
13 or not, to the ISO 9000 and the EN 45000 system -- and that
14 the data packages, when developed and submitted to a
15 designated third party in the other country, whichever way
16 it goes -- would then be able to review that data package
17 and have the right to refuse it if they felt that safety
18 requirements that prevailed in the area, and that area being
19 either a region, a state or the whole country if it is
20 federal in nature, have been met, and would have the right
21 to reject.

22 That will begin to build confidence that, in fact,
23 unique requirements indigenous to that area that are part of
24 the law of that area are being met.

25 Once that confidence exists, then I think

1 acceptance will occur between those two agencies and you
2 will do that on a product sector by product sector basis
3 which would mean the agencies involved in those product
4 sectors would be picked up as you went through.

5 CHAIRMAN WARSHAW: Okay, thank you again, Mr.
6 Castino and Mr. Bhatia.

7 We will now move to the American Council of
8 Independent Labs and Herbert Wilgus. Would you please
9 introduce your associate and please comment?

10 MR. WILGUS: Thank you, Dr. Warshaw.

11 My name is Herb Wilgus. I am accompanied by
12 Milton Bush who is director of public affairs for the
13 American Council of Independent Laboratories.

14 I, myself, am president of a small business,
15 Penniman and Browne, Incorporated. Our company is a member
16 of the American Council of Independent Laboratories, also
17 known as ACIL.

18 I am vice chairman of the government affairs
19 committee of ACIL and also chairman of its laboratory
20 accreditation subcommittee.

21 I am pleased to have the opportunity to speak on
22 behalf of ACIL today about what we believe may well be a
23 turning point in improving U.S. participation in
24 international standards-related activities.

25 I will summarize in ten minutes ACIL's prepared

1 statement, however I would first ask the Chairman that our
2 entire statement be placed in the record.

3 CHAIRMAN WARSHAW: It will.

4 MR. WILGUS: ACIL is the trade association that
5 represents independent, commercial laboratories. ACIL's
6 membership is broad-based, representing all laboratory
7 disciplines with the exception of clinical.

8 ACIL represents an industry of over 4,000
9 laboratories contributing an estimated \$11 billion annually
10 to the nation's economy -- a number that is growing as
11 American consumers demand a safer and better quality of
12 life.

13 ACIL also has on-going relationships and
14 affiliations with a number of sister societies, including
15 those in the standards community, but there is one thing
16 that I want to make abundantly clear. While we are members
17 of, or affiliated with many of these organizations, ACIL is
18 the only broad-based U.S. trade association representing the
19 interests of the independent testing laboratory industry as
20 a whole.

21 The standards community is not in a position to
22 speak for the testing community, nor are individual
23 laboratories or trade associations that represent specific
24 product sectors.

25 We are a unique industry in our own right, and

1 although linked with standards issues, our needs are very
2 different.

3 While many of our members are active in some
4 standards organizations, ACIL members as a whole are, to a
5 much greater extent, users of standards.

6 As users, we have a direct interest in the quality
7 of standards. As testers and certifiers, we will not
8 comment on standards issues today, however because NIST is
9 also reviewing testing, certification and quality assurance
10 activities, we will discuss the needs of the U.S. testing
11 industry in light of evolving international developments.

12 Before I summarize the ACIL's position, I would
13 like to state my own high personal regard for the National
14 Institute of Standards and Technology, formerly the National
15 Bureau of Standards. This respect was gained initially in
16 my career, my former career, as an employee of the U.S.
17 Government.

18 During the 30 years that I served in diplomatic
19 and consular offices abroad and in the Department of State
20 in Washington, I participated in many negotiations, some of
21 which were technical in nature.

22 I am happy to report that foreign officials
23 invariably held NBS and the American standards community in
24 high regard. At the same time, I must report a certain
25 degree of frustration on the part of other nations in

1 dealing with the fractured structure of our standards
2 system.

3 The same holds true of our system of dealing with
4 testing, certification and accreditation issues.

5 Today the government is groping to find its role
6 in international testing and certification activities. ACIL
7 believes that it can assist in this endeavor by first
8 providing a brief historical background on efforts of the
9 U.S. Government to organize and coordinate testing and
10 certification and accreditation activities in the United
11 States, by describing the present state of these activities
12 in the United States and the European community and finally,
13 by proposing a solution today that may offer competitive
14 assistance to the U.S. testing industry in light of
15 worldwide regional consolidation efforts tomorrow.

16 As you review historical documented efforts of the
17 Federal Government in testing and certification and
18 accreditation, which ACIL has done in its statement for the
19 record, you will see that the present system is not working.

20 Testing laboratories are faced with the necessity
21 of obtaining multiple certifications, each of which has
22 limited utility because each has limited acceptance. You
23 will also see that many of the same concepts that were
24 discussed over a decade ago, are being discussed today.

25 So what is different today that is driving a re-

1 examination of these issues? In one word, international.

2 The rest of the world is demanding a U.S. system
3 that can interface more easily for the purposes of
4 international trade.

5 International demands now require a re-examination
6 and reform of the undisciplined U.S. system by the
7 government. Examination of the current state of testing,
8 certification and accreditation at the federal level as
9 described in a March 1989 report by the General Accounting
10 Office, reveals that there is no coordinating mechanism
11 among government agencies. Terms, approaches, requirements,
12 accreditation procedures vary.

13 Again, this report was driven by national
14 considerations. It is obvious to ACIL that such an
15 uncoordinated and undisciplined approach cannot interface
16 effectively with international systems.

17 We explore this in great detail in our statement
18 during our discussion of the activities of the European
19 community.

20 In our written statement, ACIL explains the
21 operation of the European system, discusses policy issues
22 raised in specific EC directives, outlines specific
23 pronouncements to the European community on the European
24 organization of testing and certification known as EOTC, and
25 draws conclusions and proposes questions.

1 I will summarize these briefly.

2 At present, U.S. laboratories cannot become
3 notified bodies in the EC testing and certification scheme
4 for regulated areas. One such area is electromagnetic
5 compatibility testing, also known as EMC.

6 The U.S. also regulates EMC at the federal level
7 through the FCC and NVLAP. The U.S. system however is open
8 to foreign laboratory participation. In fact, 18 foreign
9 laboratories, many of them European, are certified to test
10 for the U.S. market.

11 But for the FCC's and USTR's willingness to close
12 the U.S. program for foreign laboratories participation,
13 unless the EC is willing to negotiate on the issue of
14 notified body status, we would have no leverage on the EC
15 and many small and medium-sized laboratories would be at a
16 serious competitive disadvantage.

17 Current EC policy allows U.S. laboratories to
18 receive subcontracts from EC notified bodies, but this
19 concession falls short of what is needed. There is
20 absolutely no competitive advantage for EC notified bodies
21 to subcontract.

22 In addition, all current bilateral agreements
23 between U.S. and EC laboratories in regulated product areas
24 will be subject to re-negotiation at the commission level
25 after 1992.

1 Finally, while a U.S. laboratory could set up a
2 U.S. owned subsidiary in an EC member state and seek
3 notified body status, this clearly is an artificial
4 incentive to invest in the EC, and well beyond the means of
5 many small and medium-sized laboratories.

6 The EOTC is a structure designed to organize the
7 private sector in the areas of testing and certification in
8 the EC. Agreement groups, part of EOTC, composed of test
9 houses and laboratories, will be open to foreign
10 participation.

11 How will small and medium-sized laboratories
12 currently serving U.S. suppliers to the EC market marshal
13 the resources necessary to participate in such groups.

14 It is imperative that incentives be provided for
15 such participation. Clearly ACIL believes that the current
16 unregulated U.S. system needs to be re-evaluated in the
17 light of the development of EOTC.

18 The most difficult part of the EC scheme to
19 understand is the treatment of products that are unregulated
20 in the U.S. but regulated in the EC. The construction
21 products directive is a useful example because all products
22 are covered.

23 While the EC would be willing to negotiate on a
24 product-by-product basis, the first question that needs to
25 answered is who will negotiate access? Because the product

1 is regulated by the EC, the federal government to government
2 dialogue will be necessary.

3 The EC will not recognize the various state, local
4 or private sector entities for the purpose of binding
5 national legal obligations.

6 The second question is, with such a decentralized
7 and unorganized system, how can the U.S. offer the EC a
8 balanced situation which it will seek for the purposes of
9 mutual recognition agreements.

10 Finally, in the areas of laboratory services yet
11 to be addressed by the EC -- for example, environmental
12 services -- the present situation is equally bleak.

13 Considerations of these realities makes ACIL
14 concerned about the competitiveness of the United States and
15 its ability to respond creatively to development worldwide
16 in the testing, certification and accreditation forum.

17 ACIL believes there is a legitimate role for both
18 the public and private sector in fashioning a coordinated
19 and systematic U.S. response to worldwide developments in
20 the testing and certification market.

21 In order to develop such a response, a complete
22 re-examination of the U.S. testing, certification and
23 accreditation industry needs to be undertaken, squared with
24 developments internationally, and performed by a
25 congressionally chartered national commission.

1 In summary, a system that ACIL could support would
2 include, but would not be limited to, some of the following
3 elements: Principally, private sector subject to
4 congressional oversight, open and transparent, subject to
5 administrative procedures required by law, non-preemptive of
6 existing federal programs unless requested by the affected
7 agency, and equipped with sufficient checks and balances.

8 Functions of such a system would include, but not
9 be limited to, one, the reciprocal acceptance of test data
10 internationally.

11 Two, the recognition of U.S. laboratory
12 accreditation schemes.

13 And three, the negotiation of U.S. laboratory
14 access internationally.

15 Thank you, Mr. Chairman.

16 CHAIRMAN WARSHAW: Thank you, Mr. Wilgus. Are
17 there any questions from the panel?

18 Well, I think your remarks were all encompassing.

19 MR. WILGUS: Thank you.

20 CHAIRMAN WARSHAW: I want to thank you both very
21 much for a very fine presentation and again, we do have the
22 comment period open until June 5th, should you have some
23 additional comments you wish to submit.

24 MR. CASTINO: Thank you.

25 MR. WILGUS: Thank you.

1 CHAIRMAN WARSHAW: I will now ask the final three
2 presenters for this afternoon, if they would come to the
3 podium, namely the American Gas Association, Retlif Testing
4 Laboratories, and Hartford Steam Boiler Inspection and
5 Insurance Company.

6 (Pause.)

7 CHAIRMAN WARSHAW: Gentlemen, thank you for taking
8 the time to present information today to us.

9 I would like first to call upon Mr. Schulte of the
10 American Gas Association.

11 MR. SCHULTE: Thank you, Mr. Chairman, members of
12 the panel.

13 My name is Richard J. Schulte. I am vice
14 president of laboratories, for the American Gas Association.

15 I appreciate this opportunity to comment on behalf
16 of AGA concerning the U.S. Government's role in standards
17 development, product testing, certification and quality
18 assurance.

19 My testimony and comments are in response to the
20 notice of hearing published in the Federal Register,
21 November 29, 1989. My presentation will consist of oral
22 remarks supplemented by a written document for the record
23 which has been submitted to your organization on March 22,
24 1990.

25 The American Gas Association is a trade

1 association consisting of approximately 250 gas utility and
2 pipeline companies who transport, distribute and sell over
3 80 percent of the natural gas used in the United States.
4 The Association has its headquarters in Arlington, Virginia.

5 For 65 years, the Association has also operated
6 AGA Laboratories with facilities in Cleveland, Ohio and Los
7 Angeles, California. The Laboratories is the principal U.S.
8 safety certification agency for gas appliances and related
9 equipment used in residential and commercial applications
10 throughout the U.S.

11 AGA Laboratories is the administrative secretariat
12 for approximately 23 committees and subcommittees that
13 maintain design standards and the National Fuel Gas Code for
14 gas-fired appliances and accessory equipment.

15 We are also one of the first U.S. organizations
16 offering to audit and register manufacturers' quality
17 assurance programs that comply with international standard
18 ISO 9000.

19 From this introduction, you can see that virtually
20 all of the topics raised in your Notice of Hearing are part
21 of our day-to-day domestic business.

22 We are also engaged in international activity.
23 Approximately 15 percent of our certification customers are
24 located in foreign countries. The gas appliance sector that
25 we serve is one of those subject to the new approach

1 directives of the European Economic Community.

2 We have a family of bilateral agreements installed
3 or under negotiation with counterpart agencies in Canada,
4 Europe and Asia. Consequently, we are interested in and
5 involved in foreign trade matters.

6 From this national and international vantage
7 point, I appear here to make four general statements
8 concerning the role of the U.S. Government in standards,
9 testing, certification and quality assurance matters
10 affecting the gas industry.

11 For purposes of this hearing, I use the term gas
12 industry to include consumers, local code officials, gas
13 pipelines, gas distribution utilities and equipment
14 manufacturers and laboratories.

15 Next the Association's position in summary.
16 First, the U.S. gas industry uses private sector systems for
17 developing standards, writing model installation codes,
18 certifying gas-fired equipment, and monitoring
19 manufacturers' quality assurance programs.

20 These systems are highly developed and widely
21 accepted in our domestic market. The same systems are
22 evolving through appropriate steps to satisfy new
23 requirements for international markets.

24 AGA believes that the gas industry's private
25 sector approach to standards development, product

1 certification and quality assurance will continue to be more
2 than adequate to serve future U.S. interests at home and
3 abroad.

4 Thus, we do not believe that our systems need to
5 be augmented by creation of a new quasi-governmental
6 accreditation body or adoption of new federal regulations in
7 this area.

8 The gas industry is one area where business and
9 local government have already demonstrated competence and
10 foresight in protecting the consumer while constraining
11 costs in a competitive environment.

12 Second, AGA is convinced that both the U.S.
13 Government and private sector organizations, ANSI, for
14 example, have a shared responsibility for the success of
15 U.S. trade with other nations.

16 We believe the U.S. Government and the private
17 sector have complementary roles that require cooperation and
18 communication across a broad front. We look for the U.S.
19 trade representative, the Department of Commerce and the
20 State Department to (a) conduct government-to-government
21 negotiations where required, to remove barriers including
22 the marketing of U.S.-made products abroad; and (b) to
23 provide timely communications to U.S. industry as to the
24 status and impact of such negotiations.

25 At the same time, AGA expects the U.S. Government

1 will show restraint in a supportive role while private
2 sector interests work out international arrangements for
3 harmonizing standards, testing products and evaluating
4 manufacturers' quality systems.

5 AGA, along with others who have spoken earlier, is
6 an advocate for a partnership or alliance between government
7 and private bodies. This alliance should operate to create
8 an international environment wherein each U.S. industrial
9 sector -- steel, gas medical equipment, for example -- can
10 work with its foreign counterparts to develop and use
11 standards, test methods and certification procedures
12 appropriate for that industry.

13 The alliance of U.S. Government and private
14 industry should seek to operate by use of existing
15 organizations without creating new agencies and imposing new
16 administrative burdens and costs on business or the Federal
17 Treasury.

18 Consistent with this philosophy, AGA has endorsed
19 formation of the Department of Commerce Federal Advisory
20 Committee on the European Community approach to standards,
21 testing and certification. Our endorsement is based on the
22 expectation and belief that both U.S. Government and private
23 sector interests can make creative use of this Committee to
24 better develop and effective and well-reasoned U.S. response
25 to European initiatives.

1 Third, AGA Laboratories has agreements in place
2 for exchanging certification services with counterpart
3 agencies in Europe. The EC Commission may require re-
4 negotiation of these agreements with U.S. Government
5 participation.

6 AGA looks forward to receiving assistance from
7 U.S. Government agencies if such negotiations are required.
8 However, if EC approval of our agreements should require
9 imposition of additional accreditation requirements,
10 regulation and expense on the U.S. gas industry, AGA will
11 look upon these costs as a failure in the negotiating
12 process.

13 We believe that the European and U.S. systems for
14 standards development, testing, product certification and
15 quality assurance can be different, and co-exist and
16 interact successfully without being forced into a common
17 mold.

18 Fourth, we encourage the U.S. Government and the
19 U.S. Department of Commerce in particular, to become a
20 constructive participant in U.S. private sector forums that
21 are already available to receive, debate, find consensus and
22 act on proposals for improving U.S. standards, testing,
23 certification and quality assurance programs.

24 I serve as a director of the American National
25 Standards Institute, as does the Director of the National

1 Institute of Standards and Technology, NIST. AGA stands
2 ready to receive through that forum, from NIST, a
3 description of those real or perceived obstacles to trade
4 that the Department of commerce and the ANSI federation
5 should address together.

6 These remarks comprise the oral testimony from
7 AGA. We made written comments which are submitted for the
8 record.

9 They show, by way of example, the substantial
10 progress being made by the American Gas Association, its
11 customers and foreign partners to position the U.S. gas
12 industry for future business success at home and abroad.

13 These activities of the gas industry have not yet
14 required U.S. Government intervention, mandate or direction
15 to be successful.

16 I thank you for this opportunity to address this
17 panel.

18 CHAIRMAN WARSHAW: Thank you, Mr. Schulte. Are
19 there any questions of AGA? Mr. Ludolph.

20 MR. LUDOLPH: Mr. Schulte, how is it in your
21 certification program here in the States that you accept
22 foreign manufactured products and certify them? Do you
23 certify them to a foreign standard, international standard?

24 MR. SCHULTE: At the current time, all of our
25 certification is for products that are manufactured, whoever

1 manufactures for sale in the United States, that we are
2 certifying foreign-made products to U.S. standards for sale
3 in the U.S.

4 MR. LUDOLPH: Does your program contemplate the
5 expansion of acceptance of foreign standards, or acceptance
6 of foreign marks into the U.S. system?

7 MR. SCHULTE: Yes, it does. The principal trading
8 partner with the U.S. in the gas product area at the moment
9 is Canada.

10 We are in the process of harmonizing with the
11 Canadian industry the standards which cover these products
12 to develop a North American standard, for example, that will
13 cover products sold in both the U.S. and Canada in the gas
14 appliance regime. That's underway.

15 I foresee that in the longer haul, we will have
16 harmonized standards, particularly in the gas controls area,
17 with European entities leading to further harmonization of
18 standards with other European product lines.

19 MR. LUDOLPH: And how do you contemplate that
20 acceptance to be integrated into the acceptance criteria for
21 inspection bodies at the state level?

22 MR. SCHULTE: I'm sorry, would you repeat your
23 question?

24 MR. LUDOLPH: Well, if a state or locality looked
25 for a safety acceptance, how do you work with the state

1 inspectors to develop the acceptance criteria?

2 MR. SCHULTE: Well, at the moment and for the
3 foreseeable future, the local inspector or local code
4 official, when he is making application of a gas product,
5 looks for a certification mark. In our case, it would be
6 HEA or it might be from some other third party agency.

7 In our case, those marks will continue to be
8 applied. That is, if we are working with a product made in
9 a foreign country, and perhaps made to a harmonized
10 standard, we would still be the certification body testing
11 against that standard.

12 In the longer haul, I think we will be in a
13 position to exchange data packages so that the testing could
14 be done in a foreign location and we would continue to apply
15 our mark.

16 That is, in fact, the form of an agreement we have
17 just installed with the Canadian Gas Association in which
18 our customers, our mutual customers, can be tested now in
19 either laboratory and we exchange data packages to provide
20 certification in both nations.

21 CHAIRMAN WARSHAW: Mr. Donaldson.

22 MR. DONALDSON: Mr. Schulte, I may have missed,
23 but did you happen to touch on the AGA participation at the
24 international level? I know you referred to some of your
25 bilateral work with groups of other countries, but did you

1 happen to mention the international work?

2 If you did, did I miss it?

3 MR. SCHULTE: The only remarks that I made were
4 those that we have in place -- bilateral agreements at very
5 low levels for exchanges of certain certification services
6 with parties in both Europe and Asia, and those agreements
7 currently cover relatively limited activities like the
8 exchange of factory inspection services.

9 MR. DONALDSON: No, I'm sorry, I guess my question
10 really was is there standards activity at the international
11 level that AGA is involved in as an organization through
12 setting up TAG's, secretariats and that kind of thing?

13 MR. SCHULTE: The direct answer is no. In the gas
14 product area, there is only one ISO committee, TC 161 which
15 deals with gas controls. The Gas Appliance Manufacturers
16 Association holds the secretariat for that.

17 Outside of that activity, there is, in our sector,
18 or has been, very little activity with the international
19 standards arena, principally because there has been so
20 little product movement, let's say, between Europe and this
21 country. Most of the product movement is between Canada and
22 this country, and so our emphasis has been there.

23 CHAIRMAN WARSHAW: Well, thank you, Mr. Schulte.

24 We move on to Walter Poggi of Retlif Testing
25 Laboratories. Mr. Poggi.

1 MR. POGGI: Good afternoon. My name is Walter
2 Poggi and I am president of Retlif Testing Laboratories, an
3 independent testing laboratory specializing in both
4 commercial and military electromagnetic interference
5 testing.

6 Retlif maintains its headquarters in Ronkonkoma,
7 New York, and a branch laboratory in Manchester, New
8 Hampshire.

9 Its staffing consists of 16 employees in
10 Ronkonkoma and six in Manchester. Our services are provided
11 to a customer base of over 500, including the likes of IBM,
12 Soundesign and Phillips Medical on the commercial side,
13 Hamilton Standard and Northrup and Pratt and Whitney on the
14 military side.

15 Retlif is small business, as is most independent
16 laboratories in this country. It is from the small business
17 viewpoint that I wish to make my comments on what I believe
18 would be proper steps to improve the U.S. participation in
19 international standards and testing activity.

20 First, I believe some additional points of
21 background information might be of help. Retlif Testing
22 Laboratories was founded in 1978 and has since that date
23 experienced very measured and consistent growth both
24 financially and internally as well as externally in regards
25 to our organizational involvement.

1 The company and its employees hold either
2 individual or organizational memberships in the American
3 Council of Independent Laboratories, the American National
4 Standards Institute, the Institute of Electronic and
5 Electrical Engineers, the National Conference of Standard
6 Laboratories, the Acoustical Society of America, the
7 American Society for Quality Control, the Society of
8 Automotive Engineers, the U.S. Chamber of Commerce, the
9 National Federation of Independent Business and the Long
10 Island Association.

11 I personally am Chairman of the Government
12 Relations Committee of the ACIL as well as its Eastern
13 Division Chairman. In addition, I am a member of the ANSI Z
14 34 committee on third party certification and the ANSI C 63
15 committee on Electromagnetic compatibility.

16 I am also a member of the Long Island
17 Association's Small Business Council and was a congressional
18 appointee to the 1986 White House Conference on Small
19 Business.

20 Since the thrust of my presentation will center on
21 the small business issues, I have not included much of the
22 technical, historical and bureaucratic issues which I am
23 sure have been or will be addressed in prior or future
24 presentations.

25 The issue is simple: How do we make certain that

1 the position of small business in this country, in this case
2 both manufacturing and testing, are protected in the areas
3 of standards writing and testing and certification?

4 As we are all aware, the fastest growing segment
5 of our economy for the past two decades has been small
6 business. In that time period, employment in small business
7 has steadily increased while it has steadily decreased in
8 the big business sector.

9 Clearly, we must make certain that small business
10 is protected and that we foster the proper environment for
11 the continued development of small business in this country.

12 As our economy becomes more and more global, I
13 find as a small business that it is increasingly more
14 difficult to remain involved in the many developing areas
15 which will and do have a direct effect on the very existence
16 of my company.

17 What in the past required one association or
18 society meeting a month, is now requiring one a week. In
19 our own case alone, we must monitor the issues such as EC
20 1992 as it relates to standards development and laboratory
21 notification, the Accreditation and Standards development
22 programs in both the military and the FCC areas as related
23 to EMI testing, ANSI committees C 63 and Z 34, ASQC programs
24 for certification of manufacturer's Q.A. program, and
25 related developments in Canada as a minimum, since all of

1 these issues directly effect our organization on a daily
2 basis.

3 And all of this monitoring must be done by a
4 company which has slightly less than 25 employees. It is
5 easy then to see why in our case our efforts can only be to
6 monitor rather than to shape.

7 Clearly this is where our interest can begin to
8 erode since we in small business do not have the time, the
9 money or the people to make certain that our interests are
10 protected.

11 Regrettably, but predictably, the volunteer
12 standards-writing concept as it is based in this country is
13 in most cases driven by and controlled by big business.
14 They have the people to support it and the money to devote
15 to it.

16 Seldom if ever is the impact on small business
17 consciously considered by these groups. It is my opinion
18 that this in itself is one of the most important reasons why
19 government must have an important role in the overall
20 standards-writing effort in this country.

21 Beyond the issue of protection of small business,
22 government involvement is required in the coordination of
23 the overall system, including the areas of standards-
24 writing, testing, certification and accreditation.

25 It is only then, that we can hope to eliminate

1 both the many duplication of efforts and the many special
2 interests which now exist.

3 As an EMI laboratory, we maintain both a NVLAP
4 accreditation and an FCC listing for performing testing to
5 FCC standards. In addition, we all maintain a Canadian DOC
6 approval for performing telecommunication testing for
7 Canada. Why?

8 Why must we maintain three accreditation,
9 approvals, or whatever you want to call them, all related to
10 basically the same testing?

11 I might add that a recent GAO paper severely
12 criticized the fact that the NVLAP and FCC program exist
13 separately and strongly suggested the elimination of one.
14 However, even within these two government agencies, there
15 are special interests at work, each protecting their own
16 territory at the expense of small businesses such as my own
17 which again, must provide the time, money and people to
18 support and maintain these programs.

19 Another example, to highlight the need for
20 government coordination, can be seen by a brief review the
21 generation of the present NVLAP accreditation in the field
22 of FCC testing.

23 I myself requested the generation of this
24 laboratory accreditation program and helped in its
25 generation based on my involvement at the time with the

1 USTR.

2 At the time USTR was deeply involved in
3 negotiations with Japan over the openness of the Japanese
4 market to American telecommunications products. Based on
5 those negotiations, USTR felt that a laboratory
6 accreditation program for laboratories certifying such
7 products would be helpful in its negotiations.

8 Interestingly enough they felt that the
9 accreditation had to come from NVLAP since in their opinion
10 the Japanese would only recognize a government-run or
11 sponsored program and not one run by the private sector.

12 After much wrangling, the program was finally put
13 in place and supported, through their involvement, by 18
14 independent laboratories. However, to date, it has never
15 been embraced or supported by the FCC, who I might add, was
16 requested to take a leadership role during its conception.

17 It has not been used to any degree of
18 effectiveness with the Japanese and to my knowledge, has not
19 even been mentioned to the Europeans. Quite honestly, since
20 it is not fulfilling its intended goals in the international
21 marketplace, I myself are beginning to question its worth.

22 Now I know that the Japanese and the Europeans
23 would like us to believe that you measure such things as
24 volts and amps differently in Japan and Europe but we all
25 know that just is not the case and it appears that the

1 problem only occurs one way, that being when it comes to
2 accepting U.S.-generated data.

3 Clearly it is not the case with our FCC since the
4 FCC in their listing program is accepting data from
5 approximately 19 Japanese laboratories and 12 European
6 laboratories.

7 The fact is, and rightfully so, the FCC will
8 accept data from any laboratory worldwide that shows that it
9 is capable of performing the testing it is certifying to.

10 Now, we may take exception to the methods the
11 commission uses to determine a laboratory's capabilities,
12 however we cannot and should not take exception to their
13 acceptance of data from all qualified sources.

14 However, what about us? What about the small U.S.
15 laboratory who is totally qualified to perform testing to
16 Japanese standards or European standards but are denied
17 acceptance in those marketplaces?

18 Who is going to champion our cause? ANSI? NVLAP?
19 There is no answer because there is no solution to the
20 problem as our system now exists. In a recent special
21 edition of the ANSI reporter, the headline states, "If it's
22 not broken, don't fix it."

23 Who is it not broken for? IBM? General Motors?
24 UL? I don't know. I do know that in my opinion as it
25 relates to my company, the system is broken. I see more and

1 more competition from Europe, from Japan and from Canada,
2 who can all offer acceptance in their country as well as
3 ours, while we cannot because of their closed door policies.

4 For better or for worse, the times are changing
5 and we must change with them in order to remain cooperative
6 and productive in the developing global marketplace. The
7 present voluntary consensus standard-writing approach used
8 in this country for so long is clearly a burden on small
9 business whose involvement represents a much greater
10 financial and organizational commitment on their behalf as
11 compared to big business who by virtue of their size and
12 staff, can much easier support such a system while clearly
13 protecting their interests.

14 The continuing developments in the EC and in the
15 Pacific Rim are in many ways clearly troubling for small
16 business such as Retlif and quite honestly, I would feel
17 much more comfortable if I knew my government, who in many
18 ways is answerable to me, was negotiating for me rather than
19 an industry group or volunteer association which may, as in
20 many cases, be driven by those capable of the greatest
21 financial and personnel support.

22 I would recommend the organization of a
23 governmental body as follows: Principally government run
24 with strong private sector involvement through direct
25 representation; subject to congressional oversight; subject

1 to administrative procedures required by law; pre-emptive of
2 existing federal and private sector programs which are
3 directly involved in international trade; responsible for
4 the recognition of U.S. laboratory accreditation programs;
5 and responsible for the acceptance of U.S. laboratory test
6 data internationally.

7 Government-run, sponsored, or coordinated
8 organizations to handle the tasks of standards-writing,
9 testing, certification and accreditation are being developed
10 in many countries.

11 Witness the Standards Council of Canada and the
12 EC's newly formed EOTC. As these developments unfold before
13 us, we must move forward to develop our own in order to
14 remain competitive in this ever changing world marketplace.

15 I can only hope that NIST and the Department of
16 commerce will rise to this occasion and seize the leadership
17 role which is solely lacking in our present system.

18 Thank you for offering me the opportunity to
19 present my viewpoints to you and I would be only to glad to
20 answer any questions you may have.

21 CHAIRMAN WARSHAW: Thank you, mr. Poggi. Are
22 there any questions? Mr. Ludolph.

23 MR. DONALDSON: Mr. Poggi, you mentioned several
24 forms of recognition that your laboratory has achieved and
25 then you mentioned a problem, potential problem with Japan

1 or European nations or elsewhere.

2 Does your lab personally have any experience in
3 having test reports turned down by acceptance bodies in
4 these other countries where a statement was made that you
5 did carry this form of recognition?

6 MR. POGGI: Well, the way we have been attempting
7 to penetrate those marketplaces, that it has been through
8 agreements, so-to-speak. Those agreements have been with
9 organizations such as TUV, as an example, in Europe.

10 The acceptance or recognition by NVLAP for the FCC
11 holds very little weight with them. They still have
12 required us to go through their own self-certifying type
13 program before they would accept our data.

14 So I think it is a question of -- I don't want to
15 put the blame on NVLAP because I don't think it's NVLAP's
16 job necessarily to go out and sell its systems, but it is
17 somebody's job in government to go out and sell the systems.

18 MR. DONALDSON: But as I understand what you're
19 saying, in the case of TUV, you were seeking to establish
20 some form of agreement with TUV, is that correct?

21 MR. POGGI: I was seeking to have my data
22 accepted.

23 MR. DONALDSON: By them?

24 MR. POGGI: Right.

25 MR. DONALDSON: Thank you.

1 CHAIRMAN WARSHAW: Mr. Ludolph.

2 MR. LUDOLPH: As it stands now, according to the
3 December 21st council resolution of the European community,
4 you can either be a notified body or you can attempt to
5 subcontract with notified bodies in Europe, the statement
6 before of the American Council of Independent Laboratories
7 indicated that there was a competitive problem in being
8 accepted as a subcontract, and that notified bodies who are
9 European who have subsidiaries in the United States, can
10 offer one-stop testing both to U.S. and European standards,
11 and that there is no incentive for them to subcontract with
12 a competitor in order to give that same service.

13 Do you concur with ACIL's evaluation that there is
14 an advantage for your type of lab or for your business to
15 become a notified body? And is there a time frame that you
16 see as required for you to become a notified body? Are
17 existing European subsidiaries attempting to enter the U.S.
18 market as notified bodies to compete with you?

19 MR. POGGI: Well, I might be talking out of turn
20 and putting some of my own internal company secrets out, but
21 I can assure you that TUV is much less interested in putting
22 together agreements with me today than they were about six
23 or seven months ago.

24 So I sense that as they perceived that they have
25 acquired the acceptance that the necessarily need in this

1 country, they have less of a need for me.

2 I am not interested in moving forward with those
3 type of arrangements in the future.

4 Similarly to the FCC situation, they accept data
5 from qualified sources. I expect the same.

6 CHAIRMAN WARSHAW: Well, thank you, Mr. Poggi. We
7 appreciate your comments.

8 Now we have Mr. Richard Feigel of the Hartford
9 Steam Boiler Inspection and Insurance Company. Mr. Feigel,
10 did I pronounce it right?

11 MR. FEIGEL: Yes, you did. Very rare.

12 (Laughter.)

13 MR. FEIGEL: Thank you, Dr. Warshaw. My name is,
14 I go by my middle name which is Gene. I am Gene Feigel, the
15 director of engineering operations for the Hartford Steam
16 Boiler Inspection and Insurance Company. In that capacity,
17 I am responsible for the management of my company's
18 standards participation and standards development, both
19 internally and our participation with consensus standards
20 development bodies outside the company.

21 My company's name is hardly a household word. We
22 are the largest boiler machinery insurer in the United
23 States, and through a joint venture indirectly and through
24 various re-insurance treaties, we also provide industrial
25 insurance throughout the world.

1 In addition, directly and through various
2 subsidiaries, we provide engineering, environmental and
3 software services of a wide variety. Probably most germane
4 to this forum, we are the largest third party inspection
5 agency operating under the American Society of Mechanical
6 Engineers, Boiler and Pressure Vessel third party inspection
7 concept.

8 We provide those inspection services throughout
9 the world, wherever they are required.

10 My company has had a longstanding commitment to
11 participating in standards developing activities, again
12 primarily through ASME but certainly with a number of
13 organizations. We have been involved in standards
14 development for over 75 years. We have a very long-term,
15 very serious commitment.

16 Since I am the last speaker today and I have
17 provided extensive written comments and suggestions, I am
18 going to keep my comments extemporaneous and brief.

19 I would like to make two points. One is that at
20 least currently we believe very strongly in de-coupling the
21 commercial and technical issues in standards development,
22 that we do believe that the government has a primary role
23 certainly in championing international trade issues and
24 probably there is no body or organization certainly that
25 could champion that cause.

1 However, we believe that in terms of the technical
2 and administrative management of actual standards
3 development, that the OMB circular A 119 certainly provides
4 an adequate framework, and that that framework is not a
5 hypothetical one. It has been shown to work and I would
6 cite as, in my mind, a very successful example that I have
7 been personally involved with -- the Coast Guard's adoption
8 of various sections of the ASME boiler and pressure vessel
9 code for the technical regulations for boilers and pressure
10 vessels under their purview.

11 I worked personally with them in their internal
12 regulatory process when they were adopting that, and have
13 watched what they have done since and how they have both
14 participated and provided personnel to participate in the
15 code committee activities that continue to develop those
16 standards, and what they have done in terms of actually
17 embodying them in the regulations, very much along the lines
18 of the A 119 scenario.

19 In my estimation, it has been very successful and
20 the feedback we have gotten from the Coast Guard is, in
21 fact, that they are reasonably satisfied. There are
22 certainly other federal and obviously state agencies that
23 have taken that tact and we believe that it was well-founded
24 and continues to be well-founded for the foreseeable future.

25 The final area I would like to make a comment in

1 is just in the general area of communications. We have
2 found that often the trade barriers that appear to be and in
3 fact are more a lack of information or accessibility of
4 information than an actual technical trade barriers.

5 Once American companies find out what, in fact,
6 they have got to do to participate or compete in various
7 areas internationally, they very often are able to. It is
8 simply a lack or a difficult time finding information,
9 particularly for small companies.

10 One of the engineers on my staff essentially is
11 working full-time with our clients in the U.S. to attempt to
12 help them understand and find information on foreign codes
13 and standards so they can compete in exporting. And again,
14 the particular product we are interested in here is in the
15 boiler/pressure vessel piping area.

16 So we would urge the government to take an
17 appropriate agencies, wherever those might be, to take a
18 much more aggressive and positive approach to providing that
19 kind of technical informational assistance to American
20 companies.

21 There are models that seem to be working fairly
22 well in the world. One, of course, is the technical help or
23 the exporters arm of the British Standards Institution
24 which, depending on how you look at them, they are a quasi-
25 governmental organization, and of course, the NOREX-AFNOR

1 group in France which provides much the same type of service
2 and we think that something modeled along those lines in the
3 United States would certainly be of substantial benefit.

4 I thank you and will answer any questions, if I
5 can.

6 CHAIRMAN WARSHAW: Thank you, Mr. Feigel. Are
7 there any questions? Mr. Ludolph.

8 MR. LUDOLPH: Mr. Feigel, I appreciate the brevity
9 of your remarks, but in your written submission, and just so
10 we are all working from the same document, this is the
11 letter to Mr. Warshaw of March 16th.

12 MR. FEIGEL: Yes.

13 MR. LUDOLPH: You make a couple of statements in
14 your paragraphs I would like to get a little bit of
15 elaboration on.

16 On the last or second page, you allude to subtle
17 non-tariff in the EC 1992 directives regarding simple
18 pressure vessels and the requirement for independent
19 inspections required on vessels under its scope be performed
20 by organizations approved one of the EC member states.

21 The criteria, the point you make is that the
22 criteria for application to become an approved inspection
23 body is not specific and would apparently permit EC members
24 considerable latitude in interpretation and implementation.

25 Do you have any recommendations in that sentence?

1 From that, do you make recommendations on how the U.S.
2 should comport itself regarding elaboration of
3 interpretation and implementation for approval of inspection
4 bodies?

5 MR. FEIGEL: I would make two comments. One is I
6 am not, I think the problem at the moment at this juncture
7 in time is simply a lack of the EC fleshing out what the
8 specific requirements are going to be.

9 So any specific recommendations would be sort of
10 hypothetical and premature on my part.

11 On the supposition that they do something fairly
12 onerous and fall down on the side of essentially approving
13 existing European-based inspection organizations only, to
14 the exclusion of American companies say, such as mine which
15 are in that sort of business, our response is to joint
16 venture.

17 We don't frankly, we are a little skeptical of
18 butting heads on this type of issue. We are working with a
19 subsidiary in Europe to joint venture and come through the
20 back door and be approved that way.

21 MR. LUDOLPH: And you are comfortable with the
22 accreditation you receive here in the United States for
23 inspections to particular types of groups of standards such
24 as pressure vessels under ASME?

25 MR. FEIGEL: Yes.

1 MR. LUDOLPH: Those kind of criteria you found to
2 be compatible with U.S. manufacturing and could be applied
3 in other environments.

4 MR. FEIGEL: Our general experience and exposure
5 to other inspection authorities outside of the U.S. is that
6 our requirements and theirs could be harmonized. They are
7 not radically different, certainly on a technical basis.

8 MR. LUDOLPH: There is another area in your
9 written statement that would help me understand a little
10 bit, if you could give me an elaboration.

11 In the next paragraph, you allude to the EM 29,000
12 series of documents which are open to a wide range of
13 interpretation and you are concerned that there is no
14 transparent adjudication mechanism available for equal
15 access to both European and U.S. entities.

16 Are you referring in that area to an adjudication
17 mechanism here in the United States, or are you referring to
18 an adjudication mechanism that deals with a North Atlantic
19 inspection?

20 MR. FEIGEL: My comment was generic to that set of
21 standards, not in terms of favoring or disfavoring American
22 competition. I have been unable to determine where any
23 company anywhere in the world might go for an adjudication
24 of a concern about how those quality requirements were being
25 imposed or applied to.

1 MR. LUDOLPH: Thank you, and the last question
2 from me is -- I don't have a yellow light so I don't have to
3 worry -- on that same page, you refer to specific
4 suggestions for consideration, when competing U.S. standards
5 have been developed, preference should be given to a
6 standard developed under ANSI consensus committee method,
7 over those developed by canvas and other methods.

8 What are these distinctions that you make? Why is
9 the ANSI consensus committee method to be given preference?

10 MR. FEIGEL: Because in my estimation at least, it
11 better assures a participation in the actual development of
12 that standard by a broader range of interest, as opposed to
13 the canvas method which on the face of it, frankly, is --
14 the people writing the actual standard very well likely have
15 a parochial interest, and then disseminate it for after-the-
16 fact comment.

17 My personal opinion is that on that simple basis,
18 the consensus method is superior.

19 MR. LUDOLPH: All right, so is this a personal
20 opinion, or is this the position of the Hartford Steam
21 Boiler company?

22 MR. FEIGEL: What you see in these written
23 comments are acceptable to my senior management.

24 MR. LUDOLPH: Let me ask you ---

25 MR. FEIGEL: They are my company's position.

1 MR. LUDOLPH: Do you have an opinion or
2 recommendation about how the development of consensus
3 committee methods should be carried out? Is that something
4 that you see continuing to develop in the private sector, or
5 are you recommending a government role in assuring a
6 preference for consensus committee methods?

7 (Pause.)

8 MR. FEIGEL: I don't want to hedge, but I am not
9 sure I am able to give a very brief answer to that.

10 MR. LUDOLPH: That's all right.

11 MR. FEIGEL: I think that is something that
12 continually needs to be reviewed and possibly should be an
13 issue for some government oversight. To that extent, I
14 would agree.

15 MR. LUDOLPH: Thanks very much.

16 CHAIRMAN WARSHAW: Thank you, Mr. Ludolph. Ms.
17 Moore.

18 MS. MOORE: This is a question the panel has
19 raised with a couple of other panelists. I am referring
20 once again to your written statement where you say when it
21 is clear that explicit recognition of U.S. standards either
22 by direct reference or reciprocal agreement is not feasible,
23 the government should encourage the use of international
24 standards development mechanisms such as ISO.

25 That seems to imply a preference for U.S.

1 standards first, and international standards a poor second.
2 What are your views on efforts to try to incorporate
3 international standards into U.S. systems almost as a
4 primary source for use standardization?

5 MR. FEIGEL: I think the issue here is we can't
6 sort of in a vacuum pick out what would be technically
7 preferable. There are historical antecedents at work here
8 and I think the going-in position, not in all cases pushed
9 very vigorously, should be to promote the use of American
10 standards wherever, not on a sort of vicious parochial
11 basis, if you will, but I think on a clear commercial basis.

12 I think, again, the focus very much is today, our
13 mindset is toward the European economic community. Well,
14 that is simply not apropos.

15 There are other areas of the world where it very
16 much is, and I think it is very feasible for us to get out
17 standards verbatim at least recognized, if not actually
18 incorporated, in local law and regulation in some areas of
19 the world, and if that is to our benefit and technically
20 acceptable to the appropriate authorities there, I think it
21 should be pursued.

22 CHAIRMAN WARSHAW: Thank you, Mr. Feigel.

23 If there are no more questions, I would like to
24 thank all three panelists today. I particularly want to
25 thank all the panelists today for holding so well to the

1 very short time frame that we had for everybody.

2 Tomorrow we will begin at 9:00 sharp in the same
3 room.

4 (Whereupon, at 4:57 p.m., the hearing was
5 adjourned, to reconvene on Tuesday, April 3, 1990 at 9:00
6 a.m.)

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8 I hereby certify that the proceedings and evidence are
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11 National Institute of Standards and Technology.
12

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ADDENDUM

The following presenters have submitted supplementary material for the record in addition to their presentations. This material is available in the U.S. Department of Commerce Central Reference and Records Inspection Facility, Room 6628, Hoover Building, Washington, DC 20230, (202/377-3271).

STANDARDS DEVELOPERS & PROFESSIONAL SOCIETIES

James Pearse, Manuel Peralta, Jeff Smith
American National Standards Institute

Joseph O'Grady
American Society for Testing and Materials

Oscar Fisher, Melvin Green
American Society of Mechanical Engineers

Marco Migliaro, Andrew Salem
Institute of Electrical and Electronics Engineers

William Calder
Instrument Society of America

Ben Johnson
Industry Applications Society

James Decker
American Society of Civil Engineers

Richard Alley
American Welding Society

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Anthony O'Neill, Arthur Cote, Daniel Piliero
National Fire Protection Association

Michael Miller, Dennis Stupak, Robert Flink, Mort Levin
Association for the Advancement of Medical Instrumentation

James Bihr, Richard Kuchnicki, William Tangye, Paul K. Heilstedt
Council of American Building Officials

Thomas Flint
American Plywood Association

David Grumman, Frank Coda, Jim Heldenbrand
American Society of Heating, Refrigerating and Air Conditioning Engineers

Harry Sheetz, Jim French
American Institute of Aeronautics & Astronautics

John Mason
Society of Automotive Engineers

Ronald Reimer
U.S. Natl. Committee of the IEC

LABORATORIES, CERTIFIERS, ETC.

Tom Castino, Joe Bhatia
Underwriters Laboratories

Herbert Wilgis, Milton Bush
American Council of Independent Laboratories

Richard Schulte
American Gas Association

Walter Poggi
Retlif Testing Laboratories

Richard Feigel
Hartford Steam Boiler Inspection & Insurance Co.

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The National Institute of Standards and Technology (NIST) held a hearing in the Department of Commerce Auditorium on April 3, 1990, through April 5, 1990, to gather information, insights, and comments related to U.S. participation in international standards-related activities and to possible Government actions.

The written comments received regarding the April 3-5, 1990, hearing on U.S. Participation in International Standards activities will be on file after April 5, 1990, in the U.S. Department of Commerce Central Reference and Records Inspection Facility, Room 6628, Hoover Building, Washington, DC 20230, (202/377-3271), for the individual's perusal or copying. Copies of the text of the hearing can be obtained from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, (703/487-4650); a copy of this text will also be made available in the same DOC Reference and Records Inspection facility after April 25, 1990.

12. KEY WORDS (6 TO 12 ENTRIES; ALPHABETICAL ORDER; CAPITALIZE ONLY PROPER NAMES; AND SEPARATE KEY WORDS BY SEMICOLONS)

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